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DEPARTMENT OF DEFENCE

DEFENCE SCIENCE AND TECHNOLOGY ORGANISATION AERONAUTICAL RESEARCH LABORATORIES

MELBOURNE, VICTORIA

Structures Technical Memorandum 449

THE CT4 FLIGHT TRIALS TEST PROGRAM

by LEONARD R. GRATZER

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LEONARD R. GRATZER

ERRATA

In the Introduction on page 1, paragraph 4 should be ammended to:-

The flight test program, designated ARDU Test Schedule 1649, was developed at ARL by SQNLDR Wurf and refined at ARDU by FLTLT Jones. It required four ARDU pilots to each fly 8 missions covering student and instructor continuation training and special flights for undercarriage load measurement. These 32 sorties were designed to represent a student pilot training syllabus of 60 hours.

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THE CT4 FLIGHT TRIALS TEST PROGRAM

bу

LEONARD R. GRATZER

SUMMARY

Between 1978 and 1980 The Aircraft Research and Development Unit (ARDU) and ARL carried out a series of flight trials in order to determine typical load histories for a CT4 Airtrainer. These supplied representative flight data which provided the basis of load sequences used in the full scale fatigue test.

This report describes the parameters measured and lists the transcripts of the pilots' voice records.



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Acces	sion Fo	r
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Justi	ficatio	n
By	ibution	1/
		y Codes
	Avail	and/or
Dist	Spec	ial
A-1		



1. INTRODUCTION

The CT4 Airtrainer is a small piston engined twin seater aircraft built by New Zealand Aerospace Limited and used by the RAAF for initial flight training. It is a low wing all metal aircraft with non-retractable undercarriage. The general layout and main characteristics of the CT4 are shown in Figure 1.

ARL was required to determine representative flight loads for use in a full scale fatigue test of a CT4 airframe (Ref. 1). To enable this to be achieved, flight trials commenced in 1978. Eleven flights were carried out in that year and the remainder of the flights was conducted from April to December 1980.

The purpose of the flight trials was three-fold:

- a. Envelope flying to limit conditions;
- b. The creation of histories of typical squadron usage; and
- c. Measurement of other flight paremeters.

The flight program, designated ARDU Test Schedule 1649, was developed at ARL by SQNLDR Wurf and refined at ARDU by FLTLT Jones so as to compress a syllabus of 60 student flying hours into 8 flights. They were to be flown by four ARDU pilots. These 8 flights consisted of training missions, undercarriage flights and instructor continuation training.

The flights were carried out on CT4 A19-031. The four pilots each flew the same group of 8 flights. However two flew with full fuel and two with half fuel.

Besides the 32 flights mentioned above, a number of other flights were flown to enable some more specific data such as turbulence and heavy landing measurements to be recorded.

A complete summary of all flights carried out during the flight trials program is shown in Table 1.

2. INSTRUMENTATION

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During the flight trials, recordings were made on the Leach MTR2400 tape recorder. The data were recorded in a 50 channel multiplexed format at 60 Hz. (This was later increased to 120 and then 240 Hz to measure the high frequency vibrations present in the empennage).

The data consisted of the output from 40 electrical resistance strain gauges and 27 other transducers. This was clearly more than the system maximum of 50 channels, so two configurations were used with each containing the addition of 8 low speed analogue and 4 low speed digital channels multiplexed at 6 (12 and 24) samples per second.

Configuration 1 excluded the undercarriage strains and configuration 2 excluded empennage strains. Tables 2 and 3 list the channel numbers and associatated data type on the flight trials aircraft, for each of the two configurations.

3. STRAIN GAUGE LOCATIONS

The locations of the forty strain gauges were chosen to enable a load distribution evaluation to be made of the complete airframe. Gauges were placed on the fuselage, wing, horizontal and vertical tails and on the undercarriage legs. Figure 2 shows the location of the strain gauges on the airframe of the flight test aircraft.

4. UNITS OF MEASUREMENT

The data were all recorded in Computer Units and therefore were required to be converted into Engineering Units. The conversion factors used in this process for the normal acceleration and the strain gauge channels are shown in Table 4.

5. FLIGHT PROFILES

The flight test aircraft was equipped with a voice recorder which allowed the pilot to describe all manoeuvres and significant events while noting the count indicator of the flight data recorder.

This enabled correlation of all events with flight measurements. To enable any future examination of the events, the Appendix contains a complete transcript of all information obtained from the pilots' voice records. This included descriptions of major manoeuvres, timing intervals, height, weather, barometric conditions and pilot's name.

Some flight voice records were either lost or undecipherable and no information was available. All other flights are listed in the Appendix.

6. CONCLUSION

A series of flight trials of a CT4 aircraft was conducted in order to obtain representative flight data. These data subsequently formed the basis for the load sequences used in the CT4 Full Scale Fatigue Test.

7. REFERENCE

1. Gratzer, L. R. The test loads sequences applied to the CT4 full scale fatigue test. ARL-STRUC-TM-415, June 1985.

```
Flight
           Date
                              Description
          -Apr-78
  1
                     Low level full fuel test flight
          -Apr -78
  2
                     Undercarriage test flight
  3
         6-Jul-78
                     Full fuel low level envelope flight
  4
        10-Jul-78
                     Aborted flight
  5
        11-Jul-78
                     Full fuel high level envelope flight
  6
        11-Jul-78
                     Low level half fuel test flight
  7
        14-Jul-78
                     Full fuel Mission 1
 8,
        14-Jul-78
                     Full fuel Mission 2
  9
        17-Jul-78
                     Full fuel Mission 3
 10
        28-Apr-80
                     Low level full fuel envelope flight
        28-Apr-80
                     Undercarriage test flight
 11
 12
        29-Apr-80
                     Full fuel Mission 1
 13
        30-Apr-80
                     Full fuel Mission, 2
         1-May-80
 14
                     Full fuel Mission 3
 15
         2-May-80
                     Full fuel Mission 4
 16
         5-May-80
                     Full fuel Mission 5
 17
         5-May-80
                     Full fuel Mission 6
                     High level full fuel envelope flight
 18
         7-May-80
                     Low level half fuel envelope flight
 19
         7-May-80
 20
         8-May-80
                     Full fuel Mission 8 (U/C)
                     Half fuel Mission 7A (Instructor continuation training)
 21
         8-May-80
                     Full fuel Mission 7B (Turbulence search and low flying)
 22
        14-May-80
         4-Jun-80
 23
                     Full fuel Mission 1
                     Full fuel Mission 3
 24
         4-Jun-80
 25
         5-Jun-80
                     Full fuel mission 2
 26
         5-Jun-80
                     Full fuel Mission 4
         6-Jun-80
 27
                     Full fuel Mission 6
 28
         6-Jun-80
                     Full fuel Mission 5
 29
         9-Jun-80
                     Full fuel Mission 8 (U/C)
 30
        10-Jun-80
                     Half fuel Mission 1
                     Half fuel Mission 2
 31
        10-Jun-80
                     Half fuel Mission 3
 32
        11-Jun-80
 33
        12-Jun-80
                     Half fuel Mission 4
        12-Jun-80
                     Half fuel Mission 5
 34
        19-Jun-80
 35
                     High speed sample rate flight 1
                     Half fuel Mission 8 (U/C)
 36
        19-Jun-80
 37
         20-Jun-80
                     Half fuel Mission 6
         15-Jul-80
 38
                     High speed sample rate flight 2
 39
         17-Jul-80
                     Airframe overspeed flight 1
 40
         17-Jul-80
                     Half fuel Mission 1
 41
         18-Jul-80
                     Half fuel Mission 2
 42
         18-Jul-80
                     Half fuel Mission 3
 43
         21-Ju1-80
                     Half fuel Mission 4
 44
         22-Jul-80
                     Half fuel Mission 5
 45
         22-Jul-80
                     Half fuel Mission 6
 46
         23-Jul-80
                     Half fuel Mission 8 (U/C)
 47
                     Airframe overspeed flight 2
         24-Ju1-80
 48
         5-Aug-80
                     Half fuel heavy landing flight
                     Pt Cook area - Turbulence
 49
         19-Nov-80
 50
         20-Nov-80
                     Pt Cook-Nhill-Edinburgh Manoeuvre and
                     convective Turbulence
                     Adelaide Hills, Turbulence
Adelaide Hills, Turbulence
         28-Nov-80
 52
          1-Dec-80
```

Ch.	Quantity	Ch.	Quantity
1	Vert. Accel	26	Reserved
2	Lat. Accel	27	Reserved
3	Long Accel	28	SG 18CE Wing rear spar WS42
4	Roll Rate	29	SG 20TE Wing rear spar WS42
5	Pitch Rate	30	SG 22SE Wing front spar WS26
۰6	Yaw Rate	31	SG 24SE Wing rear spar WS24
7	Incidence	32	SG 26SE Wing root rib FS71
8	Sideslip	33	SG 28BE Wing root rib FS93
9	Pt Fwd Accel	34	SG 30SE Wing root rib FS112
10	Pt Aft Accel	35	SG 32RA Wing shear WS25, ES93
11	Stbd Fwd Accel	, 36	SG 32RB Wing shear WS25, FS93
12	Stbd Aft Accel	์ 37	SG 32RC Wing shear WS25, FS93
13	Nose Accel	38	SC 33TE Fin main spar root
14	Tail Accel	39	SG 34TE Fin main spar root
15	Fin tip Accel	40	SG 36BE Tailplane main spar TS32.3
16	SG 5BE Wing main spar WS72	41	SG 37BE Tailplane main spar TS5.9
17	SG 9BE Wing main spar WS42	42	SG 38BE Tailplane main spar TS5.9
18	SG 21SE Wing front spar WS26	43	
19	SG 27BE Wing root rib WS93	44	SG 51CE Fuse Long - LH lower
20	SG 2BE Wing main spar WS112	45	SG 52CE Fuse Long - RH lower
21	SG 4BE Wing rear spar WS112	46	SG 53TE Fuse LOng - LH upper
22	SG 6BE Wing main spar WS72	47	SG 54TE Fuse Long - RH upper
	SG BBE Wing rear spar WS72	48	Digital L.S.M.
	SG 10BE Wing main spar WS42	49	Analogue L.S.M.
25	SG 12BE Wing rear spar WS14	50	Phase/event Marker

Analogue Low Speed Multiplexer 1 Reserved

- 2 I.A.S.
- Altitude
- 4 Aileron Position
- 5 Elevator Position
- 6 Rudder Position
- 7 Flap Position 8 Stag. Temp

Digital Low Speed Multiplexer 1 J-Tec Airspeed 2 Fuel flow

- 3 Engine RPM 4 Descent Rate

Ch.	Quantity	Ch.	Quantity
1	Vert. Accel	26	Reserved
2	Lat. Accel	27	P served
3	Long Accel	28	್ರಿತ 18CE Wing rear spar WS42
4	Roll Rate	29	
5	Pitch Rate	30	SG 22SE Wing front spar WS26
6	Yaw Rate	31	SG 24SE Wing rear spar WS24
7	Incidence	32	SG 26SE Wing root rib FS71
8	Sideslip	33	SG 28BE Wing root rib FS93
9	Pt Fwd Accel	34	SG 30SE Wing root rib FS112
10	Pt Aft Accel	35	
11	Stbd Fwd Accel	36	
12	Stbd Aft Accel		SG 32RC Wing shear WS25, FS93
13	Nose Accel	38	SG 43CE U/C axial 2 in. from bolt
14	Tail Accel	39	SG 44CE U/C axial 2 in. from bolt
15		40	
16	SG 5BE Wing main spar WS72	41	SG 46BE U/C Norm Bend 10.8 in. from bolt
17	SG 9BE Wing main spar WS42	42	
18	SG 21SE Wing front spar WS26	43	SG 48BE U/C T'verse Bend 10.8 in. from bolt
19	SG 27BE Wing root rib WS93	44	SG 49SE U/C T'verse shear 11.4 in. from bolt
20	SG 2BE Wing main spar WS112	45	SG 50SE U/C T'verse shear 11.4 in. from bolt
21	SG 4BE Wing rear spar WS112	46	SG 53TE Fuse LOng - LH upper
22	SG 6BE Wing main spar WS72	47	
23	SG 8BE Wing rear spar WS72	48	
	SG 10BE Wing main spar WS42	49	
	• • • • • • • • • • • • • • • • • • •	50	Phase/event Marker
25	DO 12DE WING FEAT SPAT WOLA	30	THESE STORE HELVEL

Analogue Low Speed Multiplexer

- 1 Reserved
- 2 I.A.S. 3 Altitude
- 4 Aileron Position
- 5 Elevator Position
- 6 Rudder Position
- 7 Flap Position 8 Stag. Temp

Digital Low Speed Multiplexer 1 J-Tec Airspeed

- 2 Fuel flow 3 Engine RPM 4 Descent Rate

Channels Common to both Configurations

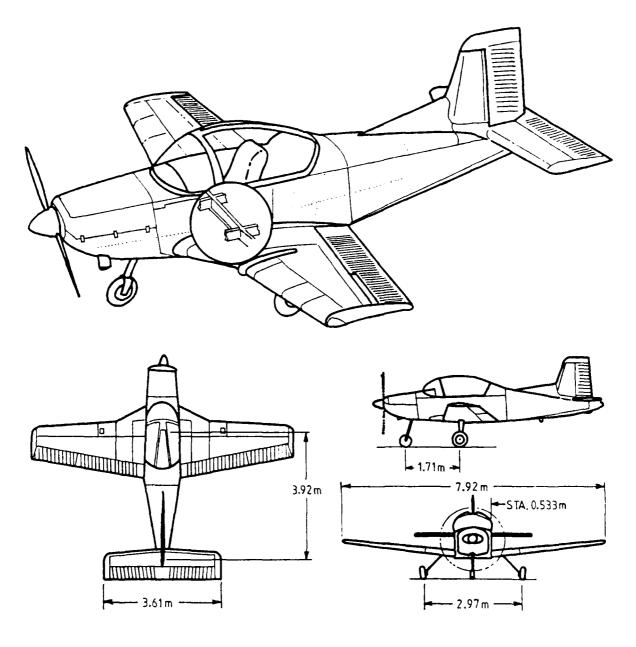
	Common to
Channel 1 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 46 47	Cal. Factor -0.005 1.105 1.395 0.598 0.579 0.728 0.729 1.058 0.719 1.447 1.663 0.057 0.057 0.212 0.706 0.600 0.554 0.584 0.585 0.596 0.594 0.606 0.600 0.218 0.217

Additional Channels on Configuration 1

Channel	Cal. Factor
38	0.774
39	0.785
40	1.401
41	1.393
42	0.726
43	0.733
44	0.349
45	0.341

Additional Channels on Configuration 2

Channel	Cal. Factor
38	0.575
39	0.583
40	1.397
41	1.388
42	0.724
43	1.047
44	0.342
45	0.341



Wing Characteristics

THE PERSONAL PRODUCT CONTRACT CONTRACT

Type: 2 spar stressed skin Mean chord: 1.63 m (64.25 in) Area: 11.98 m² (129 ft²)

Loading: 913.1 Pa (19.07 lb/ft²)

Aspect ratio: 5.25

Angle of incidence: Root 30

Tip 0°

Dihedral angle: 6⁰45' Empennage incidence 0⁰

Weight

Design Gross Weight 10676 N (2400 lb)
Maximum AUW 10676 N

Max. aerobatic AUW 10676 N

Fuselage stowage 756 N (170 lb) capacity (normal)

445 N (100 lb) (aerobatic)

Fuel weight (total) 1441 N (324 lb) Pilot weight (each) 890 N (200 lb)

Fig.1 CT4 Airtrainer and main characteristics

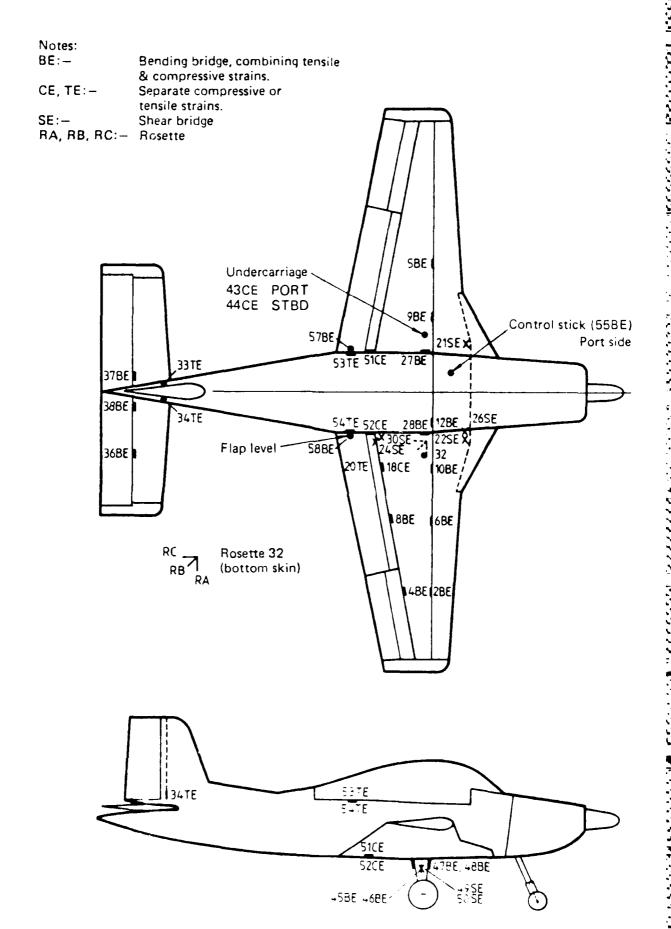


Fig. 2 CT4 Airtrainer - Strain gauge positions on flight test aircraft

APPENDIX

Transcript of Pilots' Voice Records

	AND	entices.	artist ar		********	
			,			
	Flight 1	/04/78		ow level Full Fuel Test Flight		
•	Base: Poin	t Cook				
	Pilat: F/L	T Jones	i			
•	Weather:					
	FM: U/S					
	Fuel Used: (ınknown				
	Known Faults	: Ch:	annels	9,10,11,12,13,14 - Not Connected		
		Fu	el Flo	w - Not Connected		
	Calibration	File:	No			
	Tape 1				Entry	Exi
4	Elapsed File	_			Alt A/S	Alt
	9999 1	0	40	Ground Run and Calibration for 27/04/80		
	9999 2	0	20			
	9999 3	0		Ground Run for 27/04/80		
	9999 4			Ground Run for 28/04/80		
	9999 5			Taxiing Right Turn, Left Turn,		
	• • • • • • • • • • • • • • • • • • • •	•		Right Turn, Left Turn		
	9999 6	0	105	Take-off, Climb Out		
	9999 7		75	26 Left Turn (Too Slow - Near	2000 85	1800
	,,,,	V	75	Stall)	2000 00	.000
•	0000 0	+ 0	70	26 Left Turn	2000 100	
	9999 8				2000 100	
	9999 8		150			2000
	9999 8			Increasing Speed 2770 RPH 26"	2000 100	2000
	9999 8		325	26 Left Turn	2000 140	2000
	9999 8		425	2G Right Turn	2000 140	2000
	9999 8		600	3G Pitch Up	2000 135	1800
	9999 8		750	-1G Pitch Down then 3G pitch Up	2450 90	1900
	9999 8			Flat Turn Left though 270 deg	1940 100	1900
	9999 8		975	Flat Turn Right through 270 deg	1900 100	2050
	9999 8	980	995	Accelerating 26" 2600RPM 85 lb/hr	2000 80	2000
	9999 8	1000	1050	Max Rate Turn Left	2000 120	
	9999 8	1060	1125	Max Rate Turn Right	2080 120	
	9999 8	1150	1225	5.5G Pull Up at 170 Kts	2070 120	1500
	9999 8		1340	Maximum -ve G -1.5G	2000 120	2000
	9999 8		1400	-1.5G	2000 130	2000
	9999 8		1500	Inverted Flight (Power to Idle)	2100 148	
	9999 8		1580		2070 130	
	9999 8		1875		4500 85	3900
	Tape 2		, , , ,			
	9999 6	. 0	330	Return to Base, Circuit and	4000 120	
	,,,,	•		Landing		
	9999 7	. 0	40	Ground Run and Calibration		
	,,,,	V	77	ALCANG NOW AND COTTOLOGION		

Flight 7 14/07/78 1225 Full Fuel Mission 1

Base: Edinburgh

Pilot: F/L J Foley

Weather:

FH:

Fuel Used: 32 1.

Known Faults as for flight 1

Calibration File: No

Tape 1					Ent	try	Ex	i t
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	25	Ground Run and Calibration				
9999	2	0	127	Take-off and Climb Out				
9999	3	20	60	Instructor Wing Over Left	4000	120		
9999	3	65	100	Student Wing Over Left	4050	125		
9999	3	110	160	Instructor Wing Over Right	3930	120		
9999	3	175	215	Student Wing Over Right	3800	130	3750	120
9999	3	220	325	Instructor Idle Power Stall	3800		3690	
9999	3	.330	345	Repositioning Turn Left				
9999	3	350	440	Student Idle Power Stall	3850	120		
9999	3	450	500	Instructor Wing Over Left	3770	120		
9999	3	500	550	Student Wing Over Right	3800	120		
9999	3	600	675	Instructor Take-off Flap Stall		80		
9999	3	680	750	Student Take-off Flap Stall		80		
9999	3	775	820	Instructor Wing Over Left	4500	120		
9999	3	825	875	Student Wing Over Left				
99 99	3	880	925	Instructor Wing Over Right				
9999	3	930	970	Student Wing Over Right	4200	124	4000	120
9999	3	975	1100	Instructor Full Flap Stall	4000	120		
9999	3	1115	1150	Repositioning Turn				
9999	3	1150	1225	Student Full Flap Stall				
9999	3	1230	1325	Instructor Full Flap Stall				
9999	3	1330	1715	Turning Back to Base, Descent to				
				1800 ft.				
9999	4	0	475	Circuit, Touch and Go				
9999	4	475	682	Circuit, Full Stop				
Tape 2								
9999	3	0	360	Taxiing, Ground Run and				

Calibration

Flight 8 14/07/78 1400 Full Fuel Mission 2

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1017

FH: U/S

A PRIVING GGGGGGG PRIVING PRIVING PRIVING PRIVING COLORGE SESSION SESSION

Fuel Used: 63 1.

Known Faults as for flight 1

Tape 1					En	try	Ex	it
Elapsed	file	Start	Stop		Alt	•		A/S
9999	1	0	9999	Ground Run and Calibration				
9999	2	0	410	Take-off and Touch and Go				
9999	3	20	75	Instructor Wing Over Left	5000	120		
9999	3	90	140	Student Wing Over Left				
9999	4	5	125	Instructor Spin Right	8000		6500	85
9999	5	25	125		8000		5800	110
9999	6	5	75	Student Spin Right	8000	100	6300	100
9999	6	75	120	Instructor Nose High U/A	6500			
9999	6	125	175	Student Nose High U/A				
9999	6	175	225	Student Nose Low U/A				
9999	6	225	270	Repositioning Turn Right				
9999	6	275	325					
9999	6	330	380					
9999	6	385	425	Student Vertical U/A				
9999	6	430	475	Instructor Wing Over Left	5000			
9999	6	480	525					
9999	6	530	570	•				
9999	6	575	620					
9999	6	625	1100	— — — — — — — — — — — — — — — — — — —				
9999	6	1100	1677	Standard Rejoin, Circuit and Full				
				Stop				
Tape 2				·				
9999	1	0	50	End of Landing				
9999	2	0	30	Ground Run and Calibration				

Flight 9 17/07/78 0930 Full Fuel Mission 3

Base: Edinburgh

Pilot: F/L J Folev

Weather:

FM: U/S

Fuel Used:

Known Faults as for flight 1

Tape 1					Ent	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	35	Ground Run and Calibration				
9999	2	0	150	Take-off				
9999	2	150	440	Circuit, Touch and Go				
9999	3	25	70	Instructor Wing Over Left	4000	123		
9999	3	75	110	Student Wing Over Right		134		
9999	3	115	175	Instructor Loop from LH	4350	120		
				Descending Turn				
9999	3	180	240	Student Loop from RH Descending	3500	120		
				Turn				
9999	3	270	310	Instructor Wing Over Left	3450	140	3150	125
9999	3	370	420	Instructor Loop from RH			2700	130
				Descending Turn				
9999	3	425	480	Student Loop			2430	127
9999	4	10	65	Student Slow Roll Left	5000	118	4800	115
9999	4	75	125	Instructor Slow Roll Right			4870	115
9999	4	130	180	Instructor Loop from LH			4280	135
				Descending Turn				
9999	4	185	250	Student Loop from RH Descending			3800	ŀ
				Turn				
9999	4	260	320	Instructor Idle Power Stall				
9999	4	325	375	Student Idle Power Stall				
9999	4	380	500	Instructor Full Flap Stall	3670	100		
9999	4	505	620	Student Full Flap Stall				90
9999	4	625	675					
9999	4	680	740					
9999	5	25	70	Flick Roll				
9999	5	75	125	Flick Roll				
9999	6	0	110	Practice Forced Landing (Aborted)				
9999	7	0	245	Practice Forced Landing to Full				
				Stop				
9999	8	0	35	Ground Run and Calibration				

Flight 10 28/04/80 Low level Full Fuel Envelope Flight

Base: Edinburgh

Pilot: F/L T Jones

Weather:

QNH 1032 Light Southerly

FM: 2804800024003000000403000200 0 1 4 18

3 1 0 0 1.2

Fuel Used: unknown

Known Faults

ASSESSED FOR THE STATE OF THE S

Engine RPM-Intermittent

Channel 14- U/S

Altitude/Airspeed Reversed

Tape 1					Entr	·	Exit
Elapsed	File	Start	Stop		Alt A	•	Alt A/S
9999	1	0	40	Ground Run and Calibration for 27/04/80			
9999	2	0	20	Ground Run for 27/04/80			
9999	3	0	25	Ground Run for 27/04/80			
9999	4	0	105	Ground Run for 28/04/80			
9999	5	0	135	Taxiing Right Turn, Left Turn, Right Turn, Left Turn			
9999	6	0	105				
9999	7	0	75	26 Left Turn (Too Slow - Near Stall)	2000	85	1800
9999	8	10	70	26 Left Turn	2000 1	00	90
9999	8	75	150	2G Right Turn	2000 1		100
9999	8	155	220	Increasing Speed 2770 RPM 26"	2000 1		2000 140
9999	8	225	325	26 Left Turn	2000 1		2000 120
9999	8	350	425	2G Right Turn	2000 1		2000 110
9999	8	500	600	3G Pitch Up	2000 1		1800
9999	8	650	750	-16 Pitch Bown then 36 pitch Up		90	1900 100
9999	8	755	850	Flat Turn Left though 270 deg	1940 1	00	1900 100
9999	8	875	975	Flat Turn Right through 270 deg	1900 1		2050 80
9999	8	980	995	Accelerating 26" 2600RPH 85 1b/hr		80	2000 120
9999	8	1000	1050	Max Rate Turn Left	2000 1		100
9999	8	1060	1125	Max Rate Turn Right	2080 1		
9999	8	1150	1225	5.5G Pull Up at 170 Kts	2070 1		1500 110
9999	8	1300	1340	Maximum -ve G -1.5G	2000 1	20	2000 130
9999	8	1350	1400	-1.56	2000 1		2000 130
9999	8	1410	1500	Inverted Flight (Power to Idle)	2100 1	48	
9999	8	1520	1580	Stabilized OG	2070 1		160
9999	8	1775	1875	3G pull Up to Vertical Climb		85	3900 120
Tape 2				•	*		
9999	6	0	330	Return to Base, Circuit and Landing	4000 1	20	
9999	7	0	40	Ground Run and Calibration			

	ያቸው	27-20	200		\$\rightarrow\rightarro	i zirika zirio	-X-4-6-6-6
	£liak+ 1	າາດ	/A4 /OA		Full Fuel Mission 1		
	Flight 1				rull ruel Hission (
	Base:	Edin	burgh				
	Pilat:	F/L	T Jone	5			
§ -	Weather:		QN	H 1030			
	FH: 2904	8000	240030	000004	02000200 0 0 0 5 0 0 0	0 1.0	
ļ	Fuel Use	d: 4	0 1.				
	Known Fa	ults	En	gine R	PM-Intermittent		
* *			Ch	annel	45-Zero Signal Level Jumps		
	Calibrat	ion	File:	No			
	Tape 1					Entry	Exit
	Elapsed	File	Start	Stop		Alt A/S	Alt A/S
<u> </u>	9999	1	0		Ground Run and Calibration		
1	9999	2	0		Take-off and Climb Out		
7	9999	3	20		Instructor Wing Over Left	4000 120	
	9999	3	65		Student Wing Over Left	4050 125	
Ċ	9999	3	110		Instructor Wing Over Right	3930 120	7754 404
	9999 999 9	3	175 220		Student Wing Over Right	3800 130	3750 120
Š	9999	3 3	330		Instructor Idle Power Stall Repositioning Turn Left	3800	3690
	9999	3	350		Student Idle Power Stall	3850 120	
	9999	3	450		Instructor Wing Over Left	3770 120	
\$	99 99	3	500		Student Wing Over Right	3800 120	
	9999	3	600		Instructor Take-off Flap Stall	80	
Ř	9999	3	980		Student Take-off Flap Stall	80	
<u> 1</u>	9999	3	775		Instructor Wing Over Left	4500 120	
	9999	3	825		Student Wing Over Left	1000 120	
Š	9999	3	880	925			
	9999	3	930	970	Student Wing Over Right	4200 124	4000 120
	9999	3	975	1100	Instructor Full Flap Stall	4000 120	
	9999	3	1115	1150			
	9999	3	1150	1225	Student Full Flap Stall		
Ę	9999	3	1230	1325			
	9999	3	1330	1715	Turning Back to Base, Descent to		
					1800 ft.		
	9999	4	0	475	Circuit, Touch and Go		
S	9999	4	475	682	Circuit, Full Stop		
<u>.</u>	Tape 2	_					
17	9999	3	0	360	Taxiing, Ground Run and		
•					Calibration		
(.							
<u> </u>							
<u> </u>							
3							
E							
3							
- 7							
¥"							

Flight 13 30/04/80 1130 Full Fuel Mission 2

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1030

FM: 3004800024003000000402000200 0 3 3 27 12 1 0 0 1.2

Fuel Used: 70 1.

Known Faults Engine RPM-Intermittent

Channel 43- Overloads in Spins

Channel 45- Zero Signal Level Jumps

Tape 1					Entry		Exit	
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	9999	Ground Run and Calibration				
9999	2	0	410	Take-off and Touch and Go				
9999	3	20	75	Instructor Wing Over Left	5000	120		
9999	3	90	140	Student Wing Over Left				
99 99	4	5	125	Instructor Spin Right	8000		6500	85
9999	5	25	125	Instructor Spin Left	8000		5800	110
9999	6	5	75	Student Spin Right	8000	100	6300	100
9999	6	75	120	Instructor Nose High U/A	6500			
9999	6	125	175	Student Nose High U/A				
9999	6	175	225	Student Nose Low U/A				
9999	6	225	270	Repositioning Turn Right				
9999	6	275	325	Instructor Nose Low U/A				
9999	6	330	380	Instructor Vertical U/A				
99 9 9	6	385	425	Student Vertical U/A				
9999	6	430	475	Instructor Wing Over Left	5000			
9999	6	480	525	Student Wing Over Left				
9999	6	530	570	Instructor Wing Over Right				
9999	6	575	620	Student Wing Over Right				
9999	6	625	1100	Instructor General Flying				
9999	6	1100	1677	Standard Rejoin, Circuit and Full				
				Stop				
Tape 2								
9999	1	0	50	End of Landing				
9999	2	0	30	Ground Run and Calibration				

Flight 14 01/05/80 Full Fuel Mission 3

Base: Edinburgh

Pilot: F/L T Jones

Weather:

QNH 1032 Light Southerly, 6/8 St. Cu. 5000 ft.

FM: 0105B00024003000000402000200 0 0 3 42 12 2 0 0 1.2

Fuel Used: 70 1.

・10mmのインストでは、10mmのスクスののは、10mmのスクスののでは、10mmののでは、10mm

Known Faults Engine RPM-Intermittent

Calibration File: No Gain on Channel 43 changed before Flight

Tape 1					Entry		Exit	
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	35	Ground Run and Calibration				
9999	2	0	150	Take-off				
9999	2	150	440	Circuit, Touch and Go				
9999	3	25	70	•	4000	123		
9999	3	75	110			134		
9999	3	115	175		4350	120		
				Descending Turn				
9999	3	180	240		3500	120		
				Turn				
9999	3	270	310	Instructor Wing Over Left	3450	140	3150	125
9999	3	370	420	_			2700	130
				Descending Turn				
9999	3	425	480	Student Loop			2430	127
9999	4	10	65	Student Slow Roll Left	5000	118	4800	115
9999	4	75	125	Instructor Slow Roll Right			4870	115
9999	4	130	180					135
				Descending Turn				
9999	4	185	250	Student Loop from RH Descending			3800	
				Turn				
9999	4	260	320	Instructor Idle Power Stall				
9999	4	325	375	Student Idle Power Stall				
9999	4	380	500	Instructor Full Flap Stall	3670	100		
9999	4	505	620	Student Full Flap Stall				90
9999	4	625	675	Instructor Turning Stall Right				
9999	4	680	740	Student Turning Stall Left				
9999	5	25	70	Flick Roll				
9 999	5	75	125	Flick Roll				
9999	6	0	110	Practice Forced Landing (Aborted)				
9999	7	0	245					
				Stop				
9999	8	0	35	Ground Run and Calibration				

Flight 15 02/05/80 1215 Full Fuel Mission 4

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1030 Fine Light North Easterly

FM: 0205800024003000000402000200 0 1 2 5 0 0 0 0 1.0

fuel Used: 40 1.

Known Faults Engine RPM-Intermittent

Tape 1	Tape 1 Elapsed File Start				En	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	30	Ground Run and Calibration				
9999	2	0	150	Short Take-off				
9999	2	150	360	Circuit, Short Landing				
9999	2	360	490	Normal Take-off				
9999	3	10	75	Loop				
9999	3	80	120	Instructor Slow Roll				
9999	3	125	170	Student Slow Roll				
9999	3	175	225	Instructor Idle Power Stall				
9999	3	230	275	Student Idle Power Stall				
9999	3	275	380	Instructor Land Flap Stall				
9999	3	390	510	Student Land Flap Stall				
9999	3	515	530	Repositioning Turn Left				
9999	3	535	625	Instructor Steep Turn Left only				
				approx. 2G				
9999	3	630	720	Student Steep Turn Right				
9999	4	0	350	Practice Forced Landing Touch				
				and Go				
9999	4	355	625	Low Level Circuit Touch and Go				
9999	4	630	900	Flapless Circuit and Full Stop				
9999	5	0	35	Ground Run and Calibration				

Flight 16 05/05/80 Full Fuel Mission 5

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1022 27C Fine Cloud to North 310/10-15

FM: 0505800024003000000402000200 0 0 13 0 0 0 0.7

Fuel Used: 40 1.

Known Faults Engine RPH-Intermittent

Flaps jammed 3/4 Down After Last Landing

Tape 1					Entry		E×	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	35	Ground Run and Calibration				
9999	2	0	185	Take-off				
9999	3	10	80	Wing Over Left	5000	115		
9999	3	85	140	Wing Over Right				
9999	3	145	200	Intructor Stall Turn Right from RH Descending Turn 12				
				5				
9999	3	205	260	Student Stall Turn Right from RH Desc. Turn 123				
9 999	3	265	310					
9999	3	315	350					
9999	3	350	390					
9999	3	395	445	- ·				
9 999	3	450	500					
9999	3	500	1065	· ·				
9999	4	0	40	Ground Run and Calibration				

Flight 17 05/05/80 1545 Full Fuel Mission 6

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1017 19C Calm Overcast 9000 Rain in Area

FM: 0605800024003000000402000100 0 0 19 8 2 0 0 0.8

Fuel Used: 40 1. (includes Engine Test Run Before Flight)

Known Faults Engine RPM-Intermittent

Flap Position - U/S

Tape 1					En	try	£×	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	40	Ground Run and Calibration				
9999	2	0	125	Take-off				
9999	3	10	70	Stall Turn Right from LH Desc. Turn	7000			
9999	3	75	130	Stall Turn Left from RH Besc. Turn				
9999	3	200	275	Roll Off the Top				
9999	3	280	340	•				
9999	3	345	410	Idle Power Stall				
9999	3	415	510	Land Flap Stall				
9999	3	515	535	Repositioning Turn Right				
9999	3	540	590	Instructor Barrel Roll Right from LH Desc. Turn				
9999	3	600	645	Student Barrel Roll Left from RH desc. Turn 124				
9999	3	650	690	Stall Turn Left				126
9999	3	700	745	Instructor Roll Off the Top				
9999	3	750	800	Student Roll Off the Top				
9999	3	810	860	Instructor Barrel Roll Left from RH Desc. Turn				
9999	3	865	910	Student Barrel Roll Right from LH Desc. Turn				
9999	3	915	950	Instructor Break Turn Right				
9999	3	955	995	▼				
9999	3	1000	1060	Sustained Max Rate Turn Right				
9999	3	1065	1125		1000		1500	
9999	3	1130	1560	· · · ·	1500			
9999	4	0	10	End of Landing				
9999	5	0	45	Ground Run and Calibration				

Flight 18 07/05/80 0955 High Level Full Fuel Envelope Flight

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1015 20C 320/15 Rnw 36 Fine St Cu 3000-5000

FM: 0705800024003000000402000100 0 1 2 11 4 2 0 0 1.7

Fuel Used: 130 1. (includes Flight 19)

Known Faults Engine RPM-Intermittent

Flap Position - U/S

Calibration File: No

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	55	Ground Run and Calibration				
9999	2	0	135	Take-off			•	
9999	3	10	60	26 Left Turn	8000	100		82
9999	3	65	120	2G Right Turn	8000	100		85
9999	3	130	190	Increasing Speed				
9999	3	200	260	26 Left Turn	8000	112		90
9999	3	300	370	26 Right Turn	8000	112		85
9999	3	425	510	36 Pull Up (Stalled with 90 deg	8000	111		
				bank)				
9999	4	10	125	3G Pull Up (Stalled backwards)	10000	100		
9999	4	140	210		8000	106	7120	103
9999	5	20	130	Flat Turn Left	8000	110		95
9999	5	140	220	Repositioning Turn Right				
9999	5	230	320		8000	110	7980	79
9999	5	330	430	Repositioning Turn Left				
999 9	5	440	510	Max Rate Turn Left (Stalled)			7500	85
9999	6	25	125	8000 Ft 5G (Near Stall - out	10000	100	8000	120
				Left)				
9999	6	140	250	-2.26 then Pull Up			7700	85
99 99	7	20	125	Sustained OG then 2.5G Pull Up	8000	100	6500	
9999	7	130	200	Climbing 85 Kts				
9999	8	20	175	8000 180Kts Vertical them over	10000	100	7700	
				top				
Tape 2								
99 9 9	4	10	120	Spin to Right	10000	95	5700	108
9999	4	125	625	Back to Base 12-15" 1000/Min Landing	5000	120		
9999	5	0	50	Ground Run and Calibration				

Flight 19 07/05/80 Low Level Half Fuel Envelope Flight

Base: Edinburgh

Pilot: F/L T Jones

Weather:

QNH 1015 21C 260/10-15 Rnw 36 Fine

FM: 0705800023002000000402000100 0 1 2 11 4

Fuel Used: 130 l. (includes Flight 18)

Known Faults Engine RPM-Intermittent

Tape 1					Entry		Exit	
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	40	Ground Run and Calibration				
9999	2	0	125	Take-off				
9999	3	10	60	2G Left Turn	2000	100		85
9999	3	65	125	26 Right Turn	2000	100		100
9999	3	130	170	Increasing Speed	2000	100	2000	132
9999	3	175	240	26 Left Turn	2000	132		
9999	3	250	325	2G Right Turn	2000	135		118
9999	3	330	395	3G Full Up then into Loop	2000	130	2000	120
9999	3	400	440	-1G	2000	120	1000	125
9999	3	445	560	Pulling Up into Climb			2000	127
9999	3	565	645	Flat Turn Left			1900	
9999	3	650	730	Flat Turn Right	1950	124		
9999	3	735	825	Max Rate Turn Left (into buffet)			1550	
9999	3	830	940	Climbing to 3100				
9999	3	950	1030	2000 160 Kts 5G (into buffet)	3100		2000	130
99 99	3	1030	1100	-2.0G			1350	
9999	3	1105	1220	Climbing Turn Right				
9999	3	1225	1325	Sustained OG			1000	
9999	3	1330	1540	Straight Climb then Left turn			3000	
9999	3	1550	1640	2000 Vertical (fell out nose				
				forward)				
9999	3	1800	2070	Entry to Circuit (Non-Standard)				
9999	4	0	40	Ground Run and Calibration				

Flight 20 08/05/80 1115 Full Fuel Mission 8 (U/C) Flight

Base: Edinburgh

Pilot: F/L T Jones

Weather:

STORY TO STORY STO

QNH 1023 Calm Runway 36

FM: 0805800024003000000402000100 0 0 0 0 0 0 0 1.0

Fuel Used: 90 1. (includes Flight 21)

Known Faults Engine RPM-Intermittent

```
Tape 1
                                                                   Entry
                                                                              Exit
Elapsed File Start Stop
                                                                 Alt A/S
                                                                           Alt A/S
  9999
                 0
                      55
                          Ground Run and Calibration
          1
  9999
          2
                 0
                      50
                          Take-off
  9999
          2
               50
                     250
                          Circuit
          2
  9999
               250
                     350
                          Touch and Go Runway 36 (bitumen)
  9999
          2
               350
                     525
                          Circuit
  9999
          2
               525
                          Touch and Go Runway 04 (grass)
                     565
  9999
          3
               0
                      25
                          End of Touch and Go
  9999
          3
               25
                     275
                          Circuit
  9999
          3
               275
                     355
                          Full Stop Landing on 36
  9999
               355
                          Normal Take-off
          3
                     425
  9999
          3
               425
                          Flapless Circuit
                     650
  9999
          3
               650
                     750
                          Flapless Touch and Go on 36
                          Flapless Circuit
  9999
          3
               750
                     925
  9999
          3
               925
                    1025
                          Flapless Touch and Go on 04
  9999
          3
             1025
                    1275
                          Flapless Circuit
  9999
          3
             1275
                    1320
                          Flapless Full Stop Landing on 36
  9999
          3
              1330
                    1375
                           Normal Take-off
  9999
              1375
                    1550
                          Glide Circuit
Tape 2
  9999
                      75
                           Touch and Go on 36
          1
                 0
  9999
                     240
                75
                           Glide Circuit
          1
  9999
               240
                     325
                           Touch and Go on 04
           1
  9999
               325
                     525
                           Glide Circuit
          1
  9999
               525
                     610
          1
                          Full Stop Landing on 36
  9999
          1
               610
                     675
                           Short field Take-off on 36
  9999
               675
                     900
                           Circuit
  9999
               900
                     950
                           Short field Full Stop Landing
  9999
               950
                    1025
                           Short field Take-off
  9999
              1025
                    1175
                           Circuit
  9999
              1175
                    1215
                           Short field Full Stop Landing on
                           Ground Run and Calibration
  9999
          2
                 0
                       40
```

Flight 21 08/05/80 Half Fuel Mission 7A (Instructor Continuation Training Flight)

Base: Edinburgh

Pilot: F/L T Jones

Weather:

QNH 1020 22C 210/5-10 Fine

FM: 0805800023002000000402000100 0 7 15 28 11 1 0 0 0.8

Fuel Used: 90 1. (includes Flight 20)

Known Faults Engine RPM-Intermittent

Tape 1					En	try	E×	it
Elapsed	File	Start	Stop		Alt	A./S	Alt	A/S
9999	1	0		Ground Run and Calibration				
9999	2	0	100	Take-off				
9 99 9	3	0	45	End of Take-off				
9999	4	50	800	Continuation Training	10000		1500	
9999	4	805		Straight in Approach Runway 22,				
				Landing				
0000	5	Λ	ΔΛ	Ground Run and Calibration				

flight 2	2 14/	05/80	í	Full Fuel Mission 7B (Turbulence Sea	rch and Low Flyi	n∙g
Base:	Edinb	urgh				
Pilot:	F/L T	Jones	5			
Weather:		QNI	1 1027	17C 080/10 Fine High Cloud		
FM: 1505	80002	240030	000004	02000100 0 0 0 0 0 0	0 1.3	
Fuel Use	d: uı	nknown				
Known Fa	ults	En	gi ve R	PM-Intermittent		
Calibrat	ion l	File:	No			
Tape 1					Entry Exi	
Elapsed				Outside Discount Dellahous Africa	Alt A/S Alt	A/
9999 9999	1	0		Ground Run and Calibration Take-off and Climb Out		
9999	2 3	0		Turbulence Light occ. Moderate,		
,,,,	ŭ	•		Right Turn 2/3 way Through		
9999	4	0	1100		200	
99 9 9	5	0	410	Normal Circuit		
9999	5	410	475 45			

Flight 23 04/06/80 0930 Full Fuel Mission 1 Base: Edinburgh Pilot: S/L D Knights Weather:	### Pilot: S/L D Knights Weather:	Flight 23 04/06/80 0930 Full Fuel Mission 1	
### Pilot: S/L D Knights Weather:	### Pilot: S/L D Knights Weather:		
### Weather: ### 040680002400300000402000200 0 0 0 0 0 0 0 0 0 0 0 0 0	### Weather:	Base: Edinburgh	
FM: 040680002400300000402000200 0 0 0 0 0 0 0 0 0 1.0 Fuel Used: 40 1. Known Faults None Calibration File: No (Altitude and Air Speed back to Correct Channels) Tape 1 Elapsed File Start Stop Alt A/S Alt Alt A/S	FM: 0406800024003000000402000200 0 0 0 0 0 0 0 0 0 1.0 Fuel Used: 40 1. Known Faults None Calibration File: No (Altitude and Air Speed back to Correct Channels) Tape 1 Entry Exit Alt A/S Alt A/S 9999 1 0 30 Ground Run and Calibration 9999 2 0 110 Take-off to 1000 ft 9999 3 10 25 Instructor Wing Over Left 9999 3 80 115 Instructor Wing Over Left 9999 3 80 115 Instructor Wing Over Right 9999 3 115 150 Student Wing Over Right 9999 3 150 20 Instructor Wing Over Right 9999 3 200 205 Instructor Wing Over Left 9999 3 206 205 Instructor Wing Over Left 9999 3 206 205 Instructor Wing Over Left 9999 3 206 205 Instructor Wing Over Left 9999 3 330 375 Student Wing Over Left 9999 3 375 470 Instructor Take-off Flap Stall 9999 3 470 530 Student Take-off Flap Stall 9999 3 590 412 Instructor Wing Over Left 9999 3 640 700 Student Wing Over Right 9999 3 700 700 Instructor Wing Over Right 9999 3 700 700 Instructor Wing Over Right 9999 3 700 700 Instructor Land Flap Stall 9999 3 700 700 Instructor Land Flap Stall 9999 3 700 700 Instructor Land Flap Stall 9999 3 1300 1300 Standard Rejoin and Circuit 5500 9999 3 1400 1550 Norwal Circuit 9999 3 1550 1680 Full Stop Landing	Pilot: S/L D Knights	
Real Used: 40 1.	Fuel Used: 40 1. Known Faults None Calibration File: No (Altitude and Air Speed back to Correct Channels) Tape 1 Elapsed File Start Stop Alt A/S Alt A/S 9999 1 0 30 9999 2 0 110 Take-off to 1000 ft 9999 3 10 25 Instructor Wing Over Left 5000 9999 3 25 80 Student Wing Over Right 9999 3 155 150 Student Wing Over Right 9999 3 150 210 Instructor Wing Over Right 9999 3 150 210 Instructor Wing Over Left 9999 3 150 210 Instructor Wing Over Right 9999 3 260 295 Instructor Wing Over Left 9999 3 260 295 Instructor Wing Over Left 9999 3 330 375 Student Wing Over Left 9999 3 375 470 Instructor Uning Over Left 9999 3 375 470 Instructor Take-off Flap Stall 9999 3 530 590 Climb 9999 3 590 612 Instructor Wing Over Left 9999 3 612 Gast Wing Over Left 9999 3 590 612 Instructor Wing Over Left 9999 3 590 612 Instructor Wing Over Right 9999 3 660 700 Student Wing Over Right 9999 3 700 790 Instructor Wing Over Right 9999 3 660 700 Student Wing Over Right 9999 3 700 790 Instructor Land Flap Stall 9999 3 1000 1300 Standard Rejoin and Circuit 5500 9999 3 1400 1550 Normal Circuit 9999 3 1550 1680 Full Stop Landing	Weather: QNH 1022 110 Wind Light and Variable	
Calibration File: No (Altitude and Air Speed back to Correct Channels) Tape 1	Calibration File: No (Altitude and Air Speed back to Correct Channels) Tape 1	FM: 0406800024003000000402000200 0 0 0 0 0 0 0 1.0	
Tape 1 Elapsed File Start Stop 9797 1 0 30 Ground Run and Calibration 9799 2 0 110 Take-off to 1000 ft 9799 3 10 25 Instructor Wing Over Left 9799 3 150 210 Instructor Idle Power Stall 9799 3 150 210 Instructor Wing Over Left 9799 3 20 20 Instructor Wing Over Left 9799 3 115 150 Student Wing Over Right 9799 3 150 210 Instructor Idle Power Stall 9799 3 260 295 Instructor Wing Over Left 9799 3 260 295 Instructor Wing Over Left 9799 3 330 375 Student Wing Over Left 9799 3 350 Student Wing Over Left 9799 3 375 470 Instructor Take-off Flap Stall 9799 3 375 470 Instructor Wing Over Right 9799 3 530 Student Wing Over Left 9799 3 530 Student Wing Over Left 9799 3 530 Student Wing Over Right 9799 3 530 Student Wing Over Left 9799 3 530 Student Wing Over Right 9799 3 530 Student Wing Over Right 9799 3 612 Add 635 Student Wing Over Right 9799 3 612 Finstructor Wing Over Right 9790 3 612 Finstructor Wing Over Right 9790 3 612 Finstructor Wing Over Right 9790 4 612 Finstructor Wing Over Right 9790 5 612 Finstructor Wing Over Right	Tape 1 Elapsed File Start Stop 9999 1 0 30 Ground Run and Calibration 9999 2 0 110 Take-off to 1000 ft 9999 3 10 25 Instructor Wing Over Left 9999 3 80 115 Instructor Wing Over Right 9999 3 150 210 Instructor Uning Over Right 9999 3 150 210 Instructor Uning Over Stall 9999 3 260 295 Instructor Wing Over Left 9999 3 260 295 Instructor Wing Over Left 9999 3 260 295 Instructor Wing Over Left 9999 3 250 Student Wing Over Left 9999 3 260 295 Instructor Wing Over Left 9999 3 30 Student Wing Over Left 9999 3 375 Student Wing Over Left 9999 3 590 612 Instructor Take-off Flap Stall 9999 3 590 612 Instructor Wing Over Left 9999 3 590 612 Instructor Wing Over Left 9999 3 635 660 Instructor Wing Over Left 9999 3 635 660 Instructor Wing Over Right 9999 3 700 790 Instructor Land Flap Stall 9999 3 700 790 Instructor Land Flap Stall 9999 3 700 875 Student Hang Over Right 9999 3 700 790 Instructor Land Flap Stall 9999 3 1000 1300 Standard Rejoin and Circuit 5500 9999 3 1400 1550 Normal Circuit 9999 3 1400 1550 Normal Circuit	Fuel Used: 40 1.	
Tape 1	Tape 1 Elapsed File Start Stop 9799 1 0 30 Ground Run and Calibration 9799 2 0 110 Take-off to 1000 ft 9799 3 10 25 Instructor Wing Over Left 9799 3 25 80 Student Wing Over Left 9799 3 115 150 Student Wing Over Right 9799 3 150 210 Instructor Wing Over Right 9799 3 210 260 Student Idle Power Stall 9799 3 260 275 Instructor Wing Over Left 9799 3 260 275 Instructor Wing Over Left 9799 3 260 275 Instructor Wing Over Left 9799 3 330 375 Student Idle Power Stall 9799 3 375 470 Instructor Wing Over Left 9799 3 375 Student Wing Over Right 9799 3 375 Student Take-off Flap Stall 9799 3 530 Student Take-off Flap Stall 9799 3 530 590 Climb 9799 3 550 612 Instructor Wing Over Left 9799 3 635 660 Instructor Wing Over Right 9799 3 6635 660 Instructor Wing Over Right 9799 3 700 790 Instructor Land Flap Stall 9799 3 700 790 Instructor Land Flap Stall 9799 3 700 790 Instructor Land Flap Stall 9799 3 1000 1300 Standard Rejoin and Circuit 9799 3 1400 1550 Normal Circuit 9799 3 1400 1550 Normal Circuit	Known Faults None	
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		9999 3 1550 1680 Full Stop Landing	

Flight 24 04/06/80 1430 Full Fuel Mission 3

Base: Edinburgh

Pilot: S/L D Knights

Weather: QNH 1022 Wind 5 kts S.W. 3/8 Cloud 3000

FH: 0406B00024003000000402000200 0 0 3 13 2 0 0 0 1.0

Fuel Used: 50 1.

Known Faults None

Tape 1					En	try	Ex	it	
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S	
9999	1	0	25	Ground Run and Calibration					
9999	2	0	50	If Take-off					
9999	2	50	225	Circuit		100			
9999	2	225	300	Flapless Touch and Go					
9999	2	300	360						
9999	3	10	30	Instructor Wing Over Left					
9999	3	30	60	Student Wing Over Right					
9999	3	65	120	Instructor Loop					
9999	3	120	200	Climb					
9999	3	200	250	Student Loop					
9999	4	10	30	Instructor Wing Over					
9999	4	30	50	Student Wing Over					
9999	4	50	100	Instructor Loop					
9999	4	100	170	Student Loop					
9999	4	170	240	Student Slow Roll	3000	125			
999 9	4	240	290	Instructor Slow Roll Left					
9999	4	290	360	Instructor Slow Roll Right					
9999	5	0	60	Instructor Loop	3000	140			
9999	5	60	140						
9999	5	140	220						
9999	5	220	290	Student Idle Power Stall					
9999	5	300	375	•					
9999	5	375	480						
9999	5	520	560	Instructor Turning Stall					
9999	5	560	5 85	Student Turning Stall Right					
9999	5	565	620	Student Turning Stall Left					
9999	6	0	210	Return to Base, Circuit and Landing					
9999	7	0	30	Ground Run and Calibration					
9999	8	Ŏ	65	Bad File					

Flight 26 05/06/80 1445 Full Fuel Mission 4

Base: Edinburgh

Pilot: S/L D Knights

Weather: QNH 1

: QNH 1021 Overcast Cu 3000

FM: 0506800024003000000402000400 0 0 2 6 0 0 0 1.0

Fuel Used: 45 1.

Known Faults None

Tape 1					En	Entry		Exit		
Elapsed	File	Start	Stop			•	Alt	A/S		
9999	1	0	20	Ground Run and Calibration						
9 99 9	2	0	50	St.rt field Take-off						
9999	2	50	200	Circuit						
9999	2	200	275	Aborted Landing (Runway						
				Obstructed)						
9999	3	0	120	Full Stop Landing						
9999	3	120	230	Normal Take-off						
9999	4	0	50	Instructor Turning Stall Left						
				(Aborted - Stalled)						
9999	5	0	70	Instructor Turning Stall Left						
9999	5	70	105	Student Turning Stall Right						
9999	6	5	60	Loop?						
9999	6	60	115	Instructor Slow Roll Left						
99 99	6	115	165	Student Slow Roll Right						
9999	6	165	225	Instructor Idle Power Stall						
9999	6	225	280	Student Idle Power Stall						
9999	6	280	360	Instructor Land Flap Stall						
9999	6	360	455	Student Land Flap Stall						
9999	7	0	150	Practice Forced Landing						
9999	7	150	200	Touch and Go						
9999	7	200	325	Low Level Circuit						
9999	7	325	400	Touch and Go						
9999	7	400	550	Circuit						
9999	7	550	675	Full Stop Landing on 22. Ground						
				Run and Calibration						

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	E al Parit A Parit Marks		7.0 7.07.47.0		. C . C . C . C . C . C . C . C . C . C	Rafatar 4 Rafe	LATAL STAT
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	Flight 27	06/0	6/80 091	15 F	ull Fuel Mission 6		
S							
	Base: Ed	dinbu	rgh				
•	0:3-4- 0	// Th I	Vib.A				
ی.	Pilot: S.	/L b i	Knights				
	Weather:		9NH 10	119	Wind 040/5 2/8 Cloud 3000-6000		
	we a viici 1		U		W1113 04070 270 W1000 B000 0000		
	FM: 06068	00024	0030000	0040	2000100 0 0 0 18 7 0 0	0 0.7	
2							
8	Fuel Used	: 60	l. (inc.	lude	s Flight 28)		
R [®]							
	Known Fau	lts	None				
	0-1-1-4-	Fi	1 11-				
Ř.	Calibrati	0N F1	T6: WO				
Recessar depositor advidada accessar seresasa	Tape 1					Entry	Exit
R	Elapsed F	ile S	tart St	00			Alt A/S
8	9999	1			Ground Run and Calibration		
	9999	2		_	Take-off and Climb Out		
	9999	3	10	46	Instructor Stall Turn Right	5000	
	9999	3			Stall Turn Left		
	9999	3			Roll off the Top		
E	9999				Roll off the Top		
	9999	4			Student Idle Power Stall		
	9999	4			Student Land Flap Stall Climb to 4000		
	9999 9999				Instructor Barrel Roll Right	4000	
	9999				Student Barrel Roll Left	4000	
95	9999				Instructor Stall Turn		
発	9999				Instructor Roll off the Top		
Ģ	9999				Student Roll off the Top		
R.	9999	4		30			
2	9999	4		70	Student Barrel Roll Right		
8	9999	4		10	Break Turn		
	9999				Break Turn		
\mathbf{S}	9999	4			Sustained Max Rate Turn?		
	9999 9 999	4			Return to Base Standard Rejoin, Normal Circuit		
	9999	5 5			Full Stop Landing		
	9999	5		60	Taxiing on Short Grass (Bumpy),		
K		-			Ground Run		
NS .							
2							
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Flight 28 06/06/80 1140 Full Fuel Mission 5

Base: Edinburgh

Pilot: S/L D Knights

Weather: UNH 1018 Wind 010/8 Overcast High Level Cloud

FM: 0606800024003000000402000100 0 0 0 7 0 0 0 0.5

Fuel Used: 60 1. (includes Flight 27)

Known Faults None

Tape 1				Entry		Exit		
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	25	Ground Run and Calibration				
9999	2	0	145	Take-off and Climb Out to 1000				
9999	3	5	20	Student Wing Over Right				
9999	3	20	40	Wing Over Left				
9999	3	40	75	Instructor Stall Turn Right				
9999	3	75	95	Instructor Stall Turn Right				
9999	3	95	115	Student Stall Turn Left				
9999	3	115	140	Wing Over Left				
9999	3	140	175	Wing Over Right				
9999	3	180	235	Climb?				
9999	3	235	275	Instructor Stall Turn Left				
9999	3	275	295	Student Stall Turn Right				
9999	3	295	325	Wing Over Left				
9999	3	325	390	Return to Base				
9999	4	0	200	Initial and Pitch, Normal Circuit				
9999	4	200	350	Full Stop Landing				
9999	4	350	425	Taxiing on Grass Runway				
9999	4	425	460	Ground Run and Calibration				

Flight 29 09/06/80 1000 Full Fuel Mission 8 (Undercarriage)

Base: Edinburgh

Pilot: S/L D Knights

Weather: QNH ? 15C Wind 360/5 Clear

FM: 0906800024003000000402001200 0 0 0 0 0 0 0 1.0

Fuel Usea: unknown

Known Faults Channel 44- Overloads

Channel 45- Overloads

Tape 1					En	try	Exit
Elapsed	File	Start	Stop			•	Alt A/S
9999	1	0	25	Ground Run and Calibration			
9999	2	0	75	Normal Take-off			
9999	2	75	225	Circuit			
9999	2	225	300	Normal Full Stop Landing			
9999	2	300	375				
9999	2	375	525	Circuit			
9999	2	525	600	Normal Touch and Go			
9999	3	0	50	Normal Touch and Go			
9999	. 4	0	47	Flapless Full Stop			
9999	4	47	145	Normal Take-off			
99 9 9	5	0	35	Flapless Touch and 60			
9999	6	0	45	Flapless Touch and Go			
9999	7	0	40	Practice Forced Landing Touch and Go			
9999	8	0	37	Practice Forced Landing Touch and Go			
9999	9	0	45	Practice Forced Landing Full Stop			
9999	9	45	80	Normal Take-off			
9999	10	0	60	Short field Touch and Go			
9999	11	0	40	Short field Full Stop			
9999	11	40	82	Take-off			
9999	12	0	65	Short field Full Stop			
9999	12	65	150	Taxiing			
999 9	12	150	165	Ground Run and Calibration			

Flight 30 10/06/80 0940 Half Fuel Mission 1

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1021 12C Wind 210/10-15 2/8 St Cu 1000-2000

FM: 1006800022002000000402000200 0 0 1 9 0 0 0 0.7

Fuel Used: 40 1.

Known Faults True Air Speed- U/S

Engine RPM- U/S

Engine Fuel Flow- U/S

Tape 1					Εn	try	E×	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	20	Ground Run				
9999	2	0	110	Take-off				
9999	3	0	20	Instructor Wing Over Left				
9999	3	20	50	Student Wing Over Left				
9999	3	50	<i>7</i> 5	Instructor Wing Over Right				
9999	3	75	100	Student Wing Over Right				
9999	3	100	125	Instructor Wing Over Left				
9999	3	125	160	Instructor Idle Power Stall				
9999	3	160	185	Student Wing Over Right				
9999	3	185	225					
9999	3	260	290					
9999	3	290	325	Instructor Take-off Flap Stall				
9999	3	325	355	Student Wing Over Right				
9999	3	355	390	Student Take-off Flap Stall				
9999	4	0	27	Instructor Wing Over Left				
9999	4	27	38	Student Wing Over Left				
999 9	4	38	55	Instructor Wing Over Right				
9999	4	55	75	Student Wing Over Right				
9999	4	75	100	Instructor Wing Over				
9999	4	100	160	Instructor Full Flap Stall				
9999	4	160	190	Student Wing Over				
9999	4	190	245	Student Full Flap Stall				
9999	5	0	160	Instructor Continuation Training				
9999	6	0	200	3 Mile Initial				
9999	6	200	325	Touch and Go				
9999	6	325	400	Circuit				
9999	6	400	525	Full Stop Landing				
9999	6	525	550	Taxiing on Grass				
9999	32	0	135	Taxiing on Taxiway, Ground run and calibration				

Flight 31 10/06/80 1230 Half Fuel Mission 2

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1021 14C Wind 240/10 3/8 Cu 3000-7000

FM: 1006800022002000000402000200 0 0 0 18 5 0 0 0 0.9

Fuel Used: 50 1.

Known Faults Channel 43- Overload in 1 Spin

Tape 1					En	try	£×	it	
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S	
9999	1	0	25	Ground Run and Calibration					
9999	2	0	120	Take-off					
9999	3	10	35	Instructor Wing Over Left					
9999	3	35	50	Student Wing Over Left					
9999	3	50	120	Instructor Spin Left					
9999	4	0	20	Student Wing Over					
9999	4	20	60	Instructor Spin Right					
9999	5	0	20	Student Wing Over Left					
9999	5	20	65	Student Spin Right					
9999	6	5	60	Instructor Vertical U/A					
9999	6	60	115	Student Vertical U/A					
9999	6	115	150	Instructor Nose Low U/A					
9999	6	150	190	Student Nose Low U/A					
9999	6	190	230	Instructor Nose High U/A					
9999	6	230	265	Student Nose High U/A					
9999	7	5	30	Instructor Wing Over Left					
9999	7	30	55	Student Wing Over Left					
9999	7	55	75	Instructor Wing Over Right					
9999	7	75	100	Student Wing Over Right					
9999	8	0	150	Return to Base					
9999	8	150	275	Touch and Go					
9999	8	275	350	Low Level Circuit					
9999	8	350	570	Full Stop Landing					
9999	8	570	585	Ground Run and Calibration					

Flight 32 11/06/80 1500 Half Fuel Mission 3

Base: Edinburgh

Pilot: F/L J Foley

Weather:

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QNH 1025

Wind 250/5 Clear

FM: 1106B00022002000000402000300 0 0 2 24 7 0 0 0 0.8

Fuel Used: 40 1.

Known Faults None

```
Tape 1
                                                                  Entry
                                                                             Exit
Elapsed File Start Stop
                                                                Alt A/S Alt A/S
  9999
                0
                          Ground Run
          1
                       5
  9999
          1
                5
                     150
                          Take-off
  9999
          2
                0
                      50
                          Flapless Circuit
  9999
          2
                50
                     175
                          Flapless Touch and Go
  9999
          2
               175
                     215
                         Climb Out
  9999
          3
                0
                      25
                          Instructor Wing Over Left
  9999
          3
                25
                      45
                          Student Wing Over Right
  9999
          3
                45
                      65
                          Instructor Loop
  9999
          3
                65
                     100
                          Instructor Loop
  9999
          3
               100
                     160
                          Student Loop
  9999
          3
               165
                     187
                          Instructor Wing Over Left
  9999
          3
               187
                     210
                          Student Wing Over Right
  9999
          3
               210
                     245
                          Instructor Loop
  9999
          3
               245
                     300
                          Student Loop
  9999
           3
               300
                     340
                          Student Slow Roll Left
                          Instructor Slow Roll Right
  9999
          3
               340
                     375
  9999
           3
               375
                     420
                          Climbing
  9999
           3
               420
                     435
                          Instructor Wing Over
  9999
           3
               435
                     462
                          Instructor Loop
  9999
           3
               462
                     487
                          Student Wing Over Left
  9999
               487
           3
                     512 Student Loop
  9999
                0
                      20
                          Instructor Wing Over Right
  9999
                          Instructor Wing Over Left
                20
                      35
  9999
                      75
                35
                          Instructor Idle Power Stall
  9999
                75
                      90
                          Student Wing Over Left
                          Student Idle Power Stall
  9999
                90
                     130
  9999
               130
                     160
                          Instructor Wing Over Left
  9999
                          Instructor Take-off Flap Stall
               160
                     200
  9999
               200
                     225
                          Student Wing Over Left
  9999
               225
                     300
                          Student Take-off Flap Stall
  9999
               300
                     330
                           Instructor Turning Stall
           4
  9999
                     370
               330
                           Student Turning Stall
  9999
           5
                     125
                           Continuation Training
                 0
                           Short field Landing from High Key
  9999
                 0
                      165
           6
  9999
               165
                     200
                           Take-off
           6
  9999
                           Practice Forced Landing, Touch
               200
                     350
                           and Go
  9999
               350
                      500
                           Glide Circuit
           6
  9999
               500
                      575
                         Full Stop Landing
           6
  9999
                     610 Ground Run
               575
```

Flight 33 12/06/80 0915 Half Fuel Mission 4

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1029 Wind Calm 5/8 St Cu 2500-3500

FM: 1206800022002000000402000400 0 0 3 16 8 1 0 0 0.8

Fuel Used: 40 1.

Known faults None

```
Tape 1
                                                                  Entry
                                                                            Exit
                                                                Alt A/S
Elapsed File Start Stop
                                                                          Alt A/S
  9999
                0
                          Ground Run and Calibration
                      25
          1
  9999
               25
                     75
                         Normal Take-off
          1
 9999
               75
                     225
                         Circuit
  9999
              225
                          Short field Full Stop Landing
          1
                     310
  9999
                          Instrument Take-off and Climb Out
          1
              310
                     425
  9999
          2
               10
                          Instructor 36 Steep Turn Left
                     70
                                                                     130
  9999
               70
                          Student 36 Steep Turn Right
          2
                     125
  9999
          2
              125
                          Instructor Wing Over Right
                     150
  9999
          2
              150
                     180
                          Instructor Loop
  9999
          2
              180
                     225
                          Instructor Slow Roll Left
  9999
          2
              226
                     265
                          Student Slow Roll Left
  9999
          2
              265
                     290
                          Instructor Wing Over Left
  9999
          2
              290
                     330
                          Instructor Idle Power Stall
  9999
          2
              330
                     360
                          Student Wing Over Right
  9999
          2
                          Student Idle Power Stall
              360
                     400
                          Instructor Wing Over Right
  9999
          2
              400
                     440
  9999
          2
                          Instuctor Full Flap Stall
              440
                     500
  9999
          2
              500
                     525
                          Student Wing Over Left
  9999
          2
              525
                          Student Full Flap Stall
                     570
                          Continuation Training
  9999
          3
                     130
                0
  9999
                     105
          4
                0
                         Continuation Training
  9999
          5
                     195
                          Practice Forced Landing
  9999
          5
              195
                     240
                          Touch and Go
  9999
          5
              240
                     300
                         Low Level Circuit
  9999
                         Touch and Go
          5
              300
                     400
  9999
                          Flapless Circuit
          5
              400
                     550
  9999
          5
              550
                     650
                          Flapless Full Stop Landing
  9999
                          Ground Run
              650
                     665
```

Flight 34 12/06/80 1500 Half Fuel Mission 5

Base: Edinburgh

Pilot: F/L J Foley

Weather:

QNH 1021 Wind 260/7 5/8 Cu 2500-7000

FH: 1206800022002000000402000200 0 0 1 12

Fuel Used: 20 1.

Known Faults None

Tape 1					En	try	E۶	(it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	25	Ground Run				
9999	1	25	185	Take-off to 1000 ft				
9999	2	0	20	Instructor Wing Over Left				
9999	2	20	35	Instructor Wing Over Right				
99 99	2	35	65	Instructor Stall Turn Right				
9999	2	65	85	Instructor Wing Over Left				
9999	2	85	115					
9999	2	115	140	Student Wing Over Left				
9999	2	140	175	Student Stall Turn Left				
9999	2	175	200					
9999	2	200	225					
9999	2	225	245	Instructor Stall Turn Left				
9999	2	245	268	Student Wing Over Right				
9999	2	268	300	Student Stall Turn Right (Out				
				like a Brick)				
9999	2	300	475	Aerobatics				
9999	32	475	გ 50	Right Initial for 18 2600RPM		2600) 1	32
				26"MP				
9999	2	650	750	Touch and Go				
9999	2	<i>7</i> 50	900	Circuit				
9999	2	900	1025	Full Stop Landing				
9999	2	1025	1290	Taxiing in				
9999	3	0	10	Ground Run (Battery Cart)				

## Pilot: F/L T Jones Weather:	### Pilot: F/L T Jones Weather:	## Pilot: F/L T Jones Weather:	Pilot: F/L T Jones Weather:
Pilot: F/L T Jones	### Pilot: F/L T Jones Weather:	## Pilot: F/L T Jones Weather:	Pilot: F/L T Jones Weather: QNH 1031 16C Wind Calm Runway 36 FM: 1906800024003000000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop Alt A/S 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 2000 9999 2 55 100 26 Steep Turn Left 9999 3 5 50 Wing Over Left 5000 9999 3 5 50 Wing Over Left 5000 9999 3 75 137 Slow Roll Left 9999 3 75 137 Slow Roll Left 9999 3 180 210 Barrel Roll from LH Desc Turn (not very good) 9999 3 180 210 Barrel Roll from RH Desc Turn 9999 4 2 62 Fast Spin Right 10000 9999 4 262 130 Idle Power Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 482 680 Instructor Continuation Training 9999 4 482 680 Instructor Continuation Training 9999 1 0 125 Touch and Go 100 100 100 100 1000 1000 1000 1000 1
Weather:	Weather: QNH 1031 16C Wind Calm Runway 36 FM: 1906800024003000000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop Alt A/S 9799 1 0 65 Take-off to 500 ft 9799 2 55 100 26 Steep Turn Left 9799 2 100 162 Hard Steep Turn (to Buffet) 9799 3 5 50 Wing Over Left 5000 9799 3 50 95 Loop 9799 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9799 3 180 210 255 Stall Turn Left 9799 4 2 62 Fast Spin Right 10000 9799 4 52 130 262 Take-off Flap Stall (Held in Stall) 9799 4 262 362 Full Flap Stall (Held in Stall) 9799 4 362 407 Nose Low U/A 9799 4 407 437 Nose Low U/A 9799 4 482 680 Instructor Continuation Training 9799 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9799 1 10 125 Touch and Go 9799 1 125 200 Circuit 9799 1 200 330 Short field Landing (not much Braking)	Weather: QNH 1031 16C	Weather:
FM: 1906800024003000000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop Alt A/S 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 2000 9999 2 55 100 26 Steep Turn Left 9999 2 100 162 Hard Steep Turn (to Buffet) 9999 3 5 50 Wing Over Left 5000 9999 3 75 137 Slow Roll Left 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 180 210 Barrel Roll from RH Desc Turn 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 62 130 Idle Power Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)	FM: 190680002400300000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 5 50 Wing Over Left 9999 3 5 50 Wing Over Left 9999 3 50 95 Loop 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 180 210 Barrel Roll from RH Desc Turn 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 462 130 Idle Power Stall (Held in Stall) 9999 4 362 Full Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Aose Low U/A 9999 4 402 437 Nose Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)	FM: 190680002400300000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 5 50 Wing Over Left 9999 3 5 50 Wing Over Left 9999 3 75 137 Slow Roll Left 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 362 407 Nose High U/A 9999 4 407 437 Acs Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)	FM: 190680002400300000402000200 0 2 6 26 5 0 0 0 1.0 Fuel Used: unknown Known Faults None Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 5 50 Wing Over Left 9999 3 5 50 Wing Over Left 9999 3 75 137 Slow Roll Left 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 420 362 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 362 407 Nose High U/A 9999 4 407 437 Acs Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)
Record Faults None	Record Faults	Rindwin Faults None	Rindwin Faults None
Calibration File: No Calibration File: No	Calibration File: No Calibration File: No	Calibration File: No Calibration File: No	Calibration File: No Calibration File: No
Tape 1	Tape 1 Entry Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 5 50 Wing Over Left 9999 3 50 95 Loop 9999 3 50 95 Loop 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 3 180 210 Barrel Roll from RH Desc Turn (not very good) 9999 4 2 62 Fast Spin Right 10000 9999 4 462 130 Idle Power Stall (Held in Stall) 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 482 Increase to Max Speed 9999 4 482 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)	Tape 1 Entry Elapsed File Start Stop 9799 1 0 65 Take-off to 500 ft 9799 2 0 55 30 deg Left Turn 9799 2 100 162 Hard Steep Turn (to Buffet) 9799 3 5 50 Wing Over Left 9799 3 50 95 Loop 9799 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9799 3 180 210 Barrel Roll from RH Desc Turn (not very good) 9799 3 210 255 Stall Turn Left 9799 4 2 62 Fast Spin Right 10000 9799 4 62 130 Idle Power Stall (Held in Stall) 9799 4 362 407 Nose High U/A 9799 4 362 407 Nose High U/A 9799 4 482 680 Instructor Continuation Training 9799 5 0 82 Right Initial Runway 18 (in Mist) 9799 1 200 330 Short field Landing (not much 9799 1 255 Touch and Go 9799 1 200 330 Short field Landing (not much 9799 1 200 330 Short field Landing (not much	Tape 1 Entry Elapsed File Start Stop 9799 1 0 65 Take-off to 500 ft 9799 2 0 55 30 deg Left Turn 9799 2 100 162 Hard Steep Turn (to Buffet) 9799 3 5 50 Wing Over Left 9799 3 50 95 Loop 9799 3 137 180 Barrel Roll from LH Desc Turn 9799 3 137 180 Barrel Roll from RH Desc Turn 9799 3 180 210 Barrel Roll from RH Desc Turn 9799 3 210 255 Stall Turn Left 9799 4 2 62 Fast Spin Right 10000 9799 4 62 130 Idle Power Stall (Held in Stall) 9799 4 362 407 Nose High U/A 9799 4 362 407 Nose Low U/A 9799 4 482 680 Instructor Continuation Training 9799 5 0 82 Right Initial Runway 18 (in Mist) 9799 1 200 330 Short field Landing (not much 9799 1 250 Short field Landing (not much 9799 1 200 330 Short field Landing (not much
Tape 1 Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 2 100 162 Hard Steep Turn (to Buffet) 9999 3 50 95 Loop 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LM Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 62 130 Idle Power Stall (Held in Stall) 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 482 Full Flap Stall (Held in Stall) 9999 4 482 Vertical U/A 9999 4 482 Vertical U/A 9999 4 482 Assert Stall Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much 97987 1 200 330 Short field Landing (not much	Tape 1 Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 55 50 Wing Over Left 9999 3 50 95 Loop 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 62 130 Idle Power Stall (Held in Stall) 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 462 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)	Tape 1 Elapsed File Start Stop 9797 1 0 65 Take-off to 500 ft 9797 2 0 55 30 deg Left Turn 9797 2 100 162 Hard Steep Turn Left 9797 3 5 50 Wing Over Left 9797 3 50 95 Loop 9797 3 75 137 Slow Roll Left 9797 3 180 Barrel Roll from LH Desc Turn (not very good) 9797 3 210 255 Stall Turn Left 9797 4 2 62 Fast Spin Right 10000 9797 4 62 130 Idle Power Stall (Held in Stall) 9797 4 362 362 Full Flap Stall (Held in Stall) 9797 4 362 407 Nose High U/A 9799 4 407 437 Nose Low U/A 9799 4 482 680 Instructor Continuation Training 9799 5 0 82 Right Initial Runway 18 (in Mist) 9797 1 125 200 Circuit 9797 1 200 330 Short field Landing (not much Braking)	Tape 1 Elapsed File Start Stop 9797 1 0 65 Take-off to 500 ft 9797 2 0 55 30 deg Left Turn 9797 2 100 162 Hard Steep Turn Left 9797 3 5 50 Wing Over Left 9797 3 50 95 Loop 9797 3 75 137 Slow Roll Left 9797 3 180 Barrel Roll from LH Desc Turn (not very good) 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 4 2 62 Fast Spin Right 10000 9797 4 62 130 Idle Power Stall (Held in Stall) 9797 4 362 362 Full Flap Stall (Held in Stall) 9797 4 362 362 Full Flap Stall (Held in Stall) 9797 4 407 437 Nose High U/A 9799 4 407 437 Nose Low U/A 9799 4 482 680 Instructor Continuation Training 9797 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9797 1 0 125 Touch and Go 9797 1 125 200 Circuit 9797 1 200 330 Short field Landing (not much Braking)
Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 3 55 50 Wing Over Left 9999 3 50 95 Loop 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 130 Idle Power Stall (Held in Stall) 9999 4 262 362 Full Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 407 437 Nose Low U/A 9999 4 482 482 Increase to Max Speed 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 200 330 Short field Landing (not much Braking)	Elapsed File Start Stop 9797 1 0 65 Take-off to 500 ft 9797 2 0 55 30 deg Left Turn 2000 9797 2 55 100 26 Steep Turn Left 9797 2 100 162 Hard Steep Turn (to Buffet) 9797 3 5 50 Wing Over Left 5000 9797 3 75 137 Slow Roll Left 9797 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 3 180 210 Barrel Roll from RH Desc Turn 9797 3 210 255 Stall Turn Left 9797 4 2 62 Fast Spin Right 10000 9797 4 62 130 Idle Power Stall (Held in Stall) 9797 4 362 A07 Nose High U/A 9799 4 362 407 Nose High U/A 9799 4 437 462 Vertical U/A 9799 4 482 482 Increase to Max Speed 9797 4 482 680 Instructor Continuation Training 9797 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9799 1 0 125 Touch and Go 9797 1 250 330 Short field Landing (not much Braking)	Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 2 100 162 Hand Steep Turn (to Buffet) 9999 3 5 50 Wing Over Left 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 180 210 Barrel Roll from RH Desc Turn 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 62 130 Idle Power Stall (Held in Stall) 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 262 362 Full Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 407 437 Nose Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 125 200 Circuit 9999 1 125 300 Short field Landing (not much Braking)	Elapsed File Start Stop 9999 1 0 65 Take-off to 500 ft 9999 2 0 55 30 deg Left Turn 9999 2 55 100 26 Steep Turn Left 9999 2 100 162 Hard Steep Turn (to Buffet) 9999 3 5 50 Wing Over Left 9999 3 75 137 Slow Roll Left 9999 3 137 180 Barrel Roll from LH Desc Turn (not very good) 9999 3 210 255 Stall Turn Left 9999 4 2 62 Fast Spin Right 10000 9999 4 62 130 Idle Power Stall (Held in Stall) 9999 4 130 262 Take-off Flap Stall (Held in Stall) 9999 4 362 407 Nose High U/A 9999 4 407 437 Nose Low U/A 9999 4 407 437 Nose Low U/A 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)
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Stall	Stall	Stall	Stall
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9999	9999	9999	9999
9999 4 437 462 Vertical U/A 9999 4 462 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)	9999 4 437 462 Vertical U/A 9999 4 462 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)	9999 4 437 462 Vertical U/A 9999 4 462 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)	9999 4 437 462 Vertical U/A 9999 4 462 482 Increase to Max Speed 9999 4 482 680 Instructor Continuation Training 9999 5 0 82 Right Initial Runway 18 (in Mist) 900 Tape 2 9999 1 0 125 Touch and Go 9999 1 125 200 Circuit 9999 1 200 330 Short field Landing (not much Braking)
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9999 1 200 330 Short field Landing (not much Braking)	9999 1 200 330 Short field Landing (not much Braking)	9999 1 200 330 Short field Landing (not much Braking)	9999 1 200 330 Short field Landing (not much Braking)
Braking)	Braking)	Braking)	Braking)

Flight 36 19/06/80 Half Fuel Mission 8 (Undercarriage)

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1030 14C Wind Calm 3/8 Cloud 2000-4500

0 0 1.2 FM: 1906800022002000000402001200 0 0

fuel Used: 35 1.

Known Faults None

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop		A1t	A/S	Alt	A/S
9999	1	0	20	Ground Run				
9999	2	0	77	Normal Take-off				
9999	3	0	200	Instructor Touch and Go				
9999	3	200	325	Circuit				
9999	3	32 5	450	Student Touch and dc (1.5G)				
9999	4	0	85	Instructor Touch and Go on Grass				
9999	5	0	115	Flapless Touch and Go on Grass				
9999	6	0	110	Flapless Touch and Go on Grass				
9999	7	0	120	Flapless Touch and Go on Grass				
9999	8	0	85	Practice Forced Landing Touch and				
				Go				
9999	9	0	70	Practice forced Landing Touch and				
				Go				
99 99	10	0	5 5	Practice Forced Landing Touch and				
				Go				
9999	11	0	<i>7</i> 5	Short field Full Stop				
9999	11	75	120	Short Take-off				
9999	12	0	75	Short field Full Stop				
9999	12	75	120	Short Take-off				
9999	13	0	75	Short field Full Stop				
9999	13	75	290	Taxiing (4 by Left,Right - 1 on				
				Grass)				
9999	13	290	310	Ground Run				

Flight 37 20/06/80 Half Fuel Mission 6

Base: Edinburgh

Pilot: F/L J Foley

Weather: QNH 1032 14C Calm No significant Cloud

FM: 2006800022002000000402000100 0 0 15 8 0 0 0.6

Fuel Used: unknown

Known Faults Stbd Forward Accelerometer- U/S

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	20	Ground Run and Calibration				
9999	2	0	90	Take-off				
9999	3	0	35	Stall Turn				
9999	3	35	55	Stall Turn Left				
9999	3	55	85	Instructor Roll Off the Top				
9999	3	85	101	Student Student Roll Off the Top				
9999	3	101	110	Wing Over				
9999	3	110	140	Idle Power Stall				
9999	3	140	160	Wing Over Left				
9999	3	160	200	Land Flap Stall				
9999	3	200	230	Instructor Barrel Roll Right				
9999	3	230	245	Student Barrel Roll Left				
9999	3	245	262	Wing Over?				
9999	3	262	285	Stall Turn				
9999	3	285	315	Instructor Roll Off the Top				
9999	3	315	345	Student Roll Off the Top				
9999	3	345	360	Instructor Barrel Roll Left				
9999	3	360	390	Wing Over Right				
9999	3	390	460	Climbing				
9999	3	460	485	Student Barrel Roll Right				
9999	3	485	512	Instructor Break Turn Right				
9999	3	512	550	Student Break Turn Left				
9999	3	550	580	Sustained Nax Rate Turn				
9999	4	0	170					
				22(grass)				
9999	4	170	350	Taxiing on Grass them Taxiway				
9999	4	350	370	Ground Run and Calibration				

Flight 38 15/07/80 1420 High Speed Sample Rate Flight 2

Base: Edinburgh

Pilot: F/L T Jones

Weather: QNH 1021 16C Wind 300/10 Runway 36

FM: 150780002400300000402000300 0 6 8 23 10 2 0 0 1.0

Fuel Used: 80 1.

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Known Faults None

Tape 1					En [*]	try	Ex	it
Elapsed	File	Start	Stop		Alt	•	Alt	A/S
9999	1	0	30	Ground Run and Calibration				
9999	2	0	60	Take-off to 500 ft				
9999	3	0	62	30 deg Left Turn	2000	120		
9999	3	62	112	Steep Turn Left				
9999	3	112	162	Hard Steep Turn Left (to Buffet)				
9999	3	162	187	Accelerating				
9999	3	187	230	Wing Over Left				
9999	3	230	287	Loop				
9999	3	287	337	Repositioning Right Turn				
9999	3	337	375	Slow Roll Left				
9999	3	387	425	Barrel Roll from LH Desc Turn				
9999	3	425	475	Stall Turn Left				
9999	4	25	100	Spin Left	10000			
9999	4	137	225	Idle Power Stall (Held in Stall)				
9999	4	225	375	Take-off Flap Stall (Held in				
				Stall)				
9999	4	375	475	Full Flap Stall (Held in Stall)				
9999	4	475	515	Nose High U/A				
9999	4	515	550	Nose Low U/A				
9999	4	550	587	Getting Out of Cloud				
9999	4	587	637	Vertical U/A				
9999	4	637	650	Increase to Max Speed				180
9999	4	650	672	5G Pitch Up				
Tape 2								
9999	1	0	27	End 56 Pitch Up with Vertical U/A				
9999	2	0	255	Touch and Go on 36				
9999	3	0	125	Short field Full Stop Landing				
9999	4	0	45	Ground Run and Calibration				

Flight 39 17/07/80 1030 Airframe Overspeed Flight 1 Base: Edinburgh Pilot: F/L T Jones Weather: FM: 170780002400300000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop Alt 6 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RM Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haxinum & Pull Up 9999 6 0 150 300 Landing 9999 7 0 30 Ground Run and Calibration	S. o. Y. o. R. o. P. o. P. d. F. d. P.
Flight 39 17/07/80 1030 Airframe Overspeed Flight 1 Base: Edinburgh Pilot: F/L I Jones Weather: FM: 170780002400300000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop Alt & Alt & Ground Run and Calibration 9999 2 0 150 Take-off and Clinb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Flight 39 17/07/80 1030 Airframe Overspeed Flight 1 Base: Edinburgh Pilot: F/L T Jones Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Cliab Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haximum G Pull Up 9999 6 0 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Flight 39 17/07/80 1030 Airframe Overspeed Flight 1 Base: Edinburgh Pilot: F/L I Jones Weather: FM: 170780002400300000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Entre Elapsed File Start Stop Alt 6 9799 1 0 40 Ground Run and Calibration 9799 2 0 150 Take-off and Climb Out 9799 3 0 100 Take-off Flap Overspeed 9799 3 100 260 Full Flap Overspeed 9799 4 0 70 RH Spiral Dive, Full Left Aileron 9799 4 70 125 LH Spiral Dive, Full Right Aileron 9799 5 0 90 Vertical Dive, Haximum G Pull Up 9799 6 150 300 Landing 9799 7 0 30 Ground Run and Calibration	
Flight 39 17/07/80 1030 Airframe Overspeed Flight 1 Base: Edinburgh Pilot: F/L T Jones Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haximum G Pull Up 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Base: Edinburgh Pilot: F/L T Jones Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Clinb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haxinum & Pull Up 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Pilot: F/L T Jones Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9797 1 0 40 Ground Run and Calibration 9797 2 0 150 Take-off and Climb Out 9797 3 0 100 Take-off Flap Overspeed 9797 3 100 260 Full Flap Overspeed 9797 4 0 70 RM Spiral Dive, Full Left Aileron 9797 4 70 125 LH Spiral Dive, Full Right Aileron 9797 5 0 90 Vertical Dive, Haximum G Pull Up 9797 6 0 150 300 Landing 9797 7 0 30 Ground Run and Calibration	
Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RM Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Entremain Alt & Alt	
Weather: FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.: Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Entremail Elapsed File Start Stop Alt 4 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 3 100 260 Full Flap Diverspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults	
FM: 1707800024003000000402000500 0 0 0 3 3 3 1 0 1.2 Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Ent: Elapsed File Start Stop Alt 4 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Fuel Used: unknown Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 7 0 30 Ground Run and Calibration	
Known Faults Voice Recorder Failed Calibration File: No Tape 1 Elapsed File Start Stop 7999 1 0 40 Ground Run and Calibration 7999 2 0 150 Take-off and Climb Out 7999 3 0 100 Take-off Flap Overspeed 7999 3 100 260 Full Flap Overspeed 7999 4 0 70 RH Spiral Dive, Full Left Aileron 7999 4 70 125 LH Spiral Dive, Full Right Aileron 7999 5 0 90 Vertical Dive, Maximum G Pull Up 7999 6 0 150 Maximum Speed Run? 7999 7 0 30 Ground Run and Calibration	
Calibration File: No Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 7 0 30 Ground Run and Calibration	
Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Haximum G Pull Up 9999 6 0 150 Haximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Tape 1 Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 7 0 30 Ground Run and Calibration	
Elapsed File Start Stop 9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 7 0 30 Ground Run and Calibration	
9999 1 0 40 Ground Run and Calibration 9999 2 0 150 Take-off and Climb Out 9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 7 0 30 Ground Run and Calibration	/S Alt A/S
9999 3 0 100 Take-off Flap Overspeed 9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 3 100 260 Full Flap Overspeed 9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 4 0 70 RH Spiral Dive, Full Left Aileron 9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 4 70 125 LH Spiral Dive, Full Right Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
Aileron 9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 5 0 90 Vertical Dive, Maximum G Pull Up 9999 6 0 150 Maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 6 0 150 maximum Speed Run? 9999 6 150 300 Landing 9999 7 0 30 Ground Run and Calibration	
9999 7 0 30 Ground Run and Calibration	
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Flight 40 17/07/80 1515 Half Fuel Mission 1

Base: Edinburgh

Pilot: F/L W Spears

Weather:

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QNH 1020

Wind 250/15

FM: 1707800024002000000401000200 0 0 1 1 0 0 0 0.8

Fuel Used: 70 1.

Known Faults None

Tape 1					En	t ry	Ex	it
Elapsed	File	Start	Stop				Alt	A/S
9999	1	0	27	Ground Run and Calibration				
9999	2	0	72	Take-off and Climb Out				
9999	3	5	35	Instructor Wing Over Left				
9999	3	35	62	Student Wing Over Left				
9999	3	62	100	Instructor Wing Over Right				
9999	3	100	130	Student Wing Over Right				
9999	4	2	37	Instructor Idle Power Stall				
9999	4	37	85	Student Idle Power Stall				
9999	5	2	30	Instructor Wing Over Left				
9999	5	30	60	Student Wing Over Right				
2999	6 7	0	50	Instructor Take-off Flap Stall				
9999	7	0	45	Student Take-off Flap Stall				
9999	8	0	25	Instructor Wing Over Left				
9999	8	25	60	Student Wing Over Left				
9999	8	60	90	Instructor Wing Over Right				
9999	8	90	125	Student Wing Over Right				
9999	9	0	22	Instructor Full Flap Stall				
9999	10	0	52	Student Full Flap Stall				
9999	11	0	105	Instructor Full Flap Stall				
9999	12	0	427	Return to Base	4000	100		
Tape 2								
999 9	1	0	62	Touch and Go?				
9999	2	0	32	Ground Run and Calibration				

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<u> </u>						
	Flight 41	18/0//80	1030	Half Fuel Mission 2		
Ì	Base: Ed:	inburgh				
3						
	Pilot: F/	L W Spea	75			
	Weather: Q	NH 1027	Uin	d 140/5-10 Hild Turbulence		
	FM: 180780	00240020	000004	01000200 0 0 2 8 2 0	0 0.8	
•	Fuel Used:	25 1				
; ,	ider daedt	20 1.				
•	Known Faul	ts No	ne			
1						
	Calibratio	n file:	NO			
	Tape 1				Entry Exit	
}	Elapsed Fi	le Start	Stop		Alt A/S Alt A/S	
		1 0	27			
, ,		2 0	25	Take-off		
ļ		2 25	200			
		2 200	312			
•		3 0	30	Instructor Wing Over Left		
:		3 30	62			
		3 62	112	Instructor Spin Right		
		4 0	50			
		5 0	45			
		5 45	72	Instructor Nose High U/A		
•		5 72	95	Student Nose High U/A		
•		5 95	125	Instructor Nose Low U/A		
•		5 125	162	Student Nose Low U/A		
		6 0	50	Instructor Vertical U/A		
Ī	9999	6 50	100	Student Vertical U/A		
•		6 100	130	Instructor Wing Over Left		
• • •	9999	6 130	160	Student Wing Over Left		
•	9999	6 160	185			
,	9999	6 185	210			
		7 0	125		1000 130	
į		7 125	205			
•		8 0	30			

Flight 42 18/07/80 Half Fuel Mission 3

Base: Edinburgh

Pilot: F/L W Spears

Weather:

QNH 1026 Wind 270/5-10

FN: 1807800024002000000401000200 0 2 13 0 0.9

Fuel Used: 20 1.

Known Faults None

```
Tape 1
                                                                                  Entry
                                                                                             Exit
                 Elapsed File Start Stop
                                                                                Alt A/S
                                                                                          Alt A/S
                   9999
                                           Ground Run and Calibration
                            1
                                  0
                                       25
                   9999
                            2
                                  0
                                       50
                                           IF Take-off
                   9999
                            2
                                 50
                                      200
                                          Flapless Circuit
                   9999
                            2
                                200
                                      303
                                          Flapless Touch and Go
                   9999
                            3
                                 0
                                       35
                                           Instructor Ving Over Left
                   9999
                            3
                                 35
                                           Student Wing Over Right
                                       65
                   9999
                                  0
                                       30
                                           Instructor Loop
                            4
                   9999
                                 30
                                           Student Loop
                            4
                                       60
                   9999
                                  0
                            5
                                       30
                                           Instructor Wing Over Left
                   9999
                                 30
                            5
                                       60
                                           Student Wing Over Right
                   9999
                            5
                                 60
                                       85
                                           Instructor Loop
                   9999
                            5
                                 85
                                      107
                                           Student Loop
                   9999
                                  0
                                       37
                            6
                                           Student Slow Roll Left
                   9999
                                  0
                            7
                                       32
                                           Instructor Slow Roll Right
                   9999
                            8
                                  0
                                       30
                                           Instructor Loop
                   9999
                                 30
                            8
                                       60
                                           Student Loop
                   9999
                            9
                                  0
                                       35
                                           Instructor Idle Power Stall
                   9999
                            9
                                 35
                                       75
                                           Student Idle Power Stall
                   9999
                           10
                                  0
                                       85
                                           Instructor Land Flap Stall
                   9999
                           11
                                  0
                                       90
                                           Student Land Flap Stall
                   9999
                                  0
                           12
                                       37
                                          Instructor Turning Stall Right
                   9999
                                 37
                           12
                                       66 Student Turning Stall Left
                   9999
                           13
                                  0
                                      112 Practice Forced Landing
                   9999
                                112
                           13
                                      155 Full Stop Landing
                   9999
                                       27
                                           Ground Run and Calibration
                           14
                                  0
```

Flight 43 21/07/80 Half Fuel Mission 4

Base: Edinburgh

Pilot: F/L W Spears

Weather: QNH 1022 13C Wind South-Westerly 10 kts.

FM: 2107800024002000000401000200 0 0 2 6 0 0 0 0.8

Fuel Used: 35 l.

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Known Faults None

Tape 1					Ent	Lry	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	25	Ground Run and Calibration				
9999	2	0	145					
9999	3	0	87	Short field Landing				
9999	3	87	160	Normal Take-off				
9999	4	0	42	Instructor Steep Turn Left				
9999	4	42	76	Student Steep Turn Right				
9999	5	0	27	Loop				
9999	5	27	60	Instructor Slow Roll Left				
9999	5	60	87	Student Slow Roll Right				
9999	6	0	45	Instructor Idle Power Stall				
9999	6	45	92	Student Idle Power Stall				
9999	7	0	85	Instructor Full Flap Stall				
9999	7	85	155	Student Full Flap Stall				
9 999	8	0	125	Practice Forced Landing				
9999	8	125	225	Touch and Go				
9999	8	225	337	Low Level Circuit				
9999	8	337	437	Touch and Go				
9999	9	0	<i>7</i> 5	Flapless Circuit	800	100		
Tape 2								
9999	3	0	50	End of Flapless Circuit				
9999	3	50	120	Flapless Full Stop Landing				
9999	4	0	30	Ground Run and Calibration				

Flight 44 22/07/80 0930 Half Fuel Mission 5

Base: Edinburgh

Pilot: F/L W Spears

Weather: QNH 1028 13C Calm Runway 36

FN: 22078000240002000000401000200 0

Fuel Used: 20 1.

Known Faults None

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	27	Ground Run and Calibration				
9999	2	0	82	Take-off				
9999	3	0	27	Instructor Wing Over Left		120		
9999	3	27	55	Student Wing Over Right				
9999	3	55	80	Intructor Stall Turn Right (Fell Out)		130		
9999	3	80	105	Intructor Stall Turn Right				
9999	3	105	130	Intructor Stall Turn Right		130		
9999	3	130	160	Student Stall Turn Left				
9999	3	160	187	Instructor Wing Over Left				
9999	3	187	212	Student Wing Over Right				
9999	3	212	237	Instructor Stall Turn Left				
9999	3	237	267	Student Stall Turn Right				
9999	4	0	100	Return to Base	2000	140		
9999	4	100	225	Initial and Pitch?				
9999	4	225	316	Full Stop Landing				
9999	5	0	25	Ground Run and Calibration				

Flight 45 22/07/80 1400 Half Fuel Mission 6

Base: Edinburgh

Pilot: F/L W Spears

Weather: QNH

QNH 1028 13C Calm Runway 36

FM: 22078000240002000004010200 0 0 0 20 4 0 0 0 0.8

Fuel Used: 40 1.

Known Faults None

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop			A/S	Alt	A/S
9999	1	0	25	Ground Run and Calibration				
9999	2	0	62	Take-off				
9999	3	0	30	Stall Turn Right				
9999	3	30	55	Stall Turn Left				
9999	3	55	90	Instructor Roll Off the Top				
9999	3	90	125	Student Roll Off the Top				
9999	3	125	170	Idle Power Stall				
9999	3	170	245	Land Flap Stall				
9999	4	0	30	Instructor Barrel Roll Right				
9999	4	30	50	Student Barrel Roll Left				
9999	5	0	27	Stall Turn				
9999	6	0	30	Instructor Roll Off the Top				
9999	7	0	25	Student Roll Off the Top				
9999	8	0	25	Instructor Barrel Roll Left				
9999	8	25	50	Student Barrel Roll Right				
9999	10	0	15	Instructor Break Turn				
9999	11	0	20	Student Break Turn				
9999	13	0	58	Sustained Max Rate Turn				
9999	14	0	125	Return to Base				
9999	14	125	230	Full Stop Landing				
9999	15	0	25	Ground Run and Calibration				

Flight 46 23/07/80 Half Fuel Mission 8 (Undercarriage)

Base: Edinburgh

Pilot: F/L W Spears

Weather: QNH 1029 9C Wind Light and Variable Runway 36

FH: 2407800024002000000401001300 0 0

Fuel Used: Unknown

Known Faults None

Tape 1					En	try	Ex	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	40	Normal Take-off 28"MP 2750RPM				
9999	2	0	95	Normal Touch and Go on 36				
9999	3	0	85	Flapless Touch and Go				
9999	4	0	70	Practice Forced Landing Touch and Go				
9999	5	0	95	Touch and Go				
9999	6	0	30	Taxiing on Grass				
9999	6	30	75	Normal Take-off on Grass				
9999	7	0	100	Touch and Go on Grass				
9999	8	0	60	Flapless Touch and Go on Grass				
9999	9	0	87	Practice Forced Landing Full Stop				
9999	9	87	150	Short field Full Stop on Grass				
9999	9	150	225	Circuit				
9999	9	225	287	Short field Full Stop on Grass				
9999	9	287	325					
9999	10	0	100	Circuit				
9999	10	100	190	Normal Touch and Go				
Tape 2								
9999	5	0	50	Circuit				
9999	5	50	120	Flapless Full Stop On Grass				
9999	6	0	108	Practice Forced Landing Touch and Go				
9999	7	0	46	End of Touch and Go				
9999	8	0	50	Circuit				
9999	8	50	150	Short field Full Stop				
9999	8	150	190	Taxiing				
9999	9	0	30	Ground Run and Calibaration				

Flight 4	7 24	/07/80		Airframe Overspeed Flight 2		
Base:	Edin	burgh				
Pilot:	F/L	1 Jone	s			
Weather:				Fine, Wind Light and Variable		
FM: 2407	8000	230020	000004	01000500 0 0 0 5 4 3 1	0 1.2	
Fuel Use	d: u	nknown				
Known Fa	ults	No	ne			
Calibrat	ion (File:	No			
Tape 1					Entry	Exit
Elapsed	File	Start	Stop		Alt A/S	Alt A
9999	1	0	45			
9999	2	0		Take-off and Climb Out		
9999	3	25		Take-off Flap Overspeed 120kts.	7000 120	
9999	3	100		Full Flap Overspeed 110kts.		
9999	3	225	300	LH Spiral Dive, Full Right		
				Aileron 4.76		
9999	3	300	350			
				4.76		
9999	4	20	100	Vertical Dive, Maximum G Pull Up		
				76		
9999	5	0	125	Maximum Air Speed Run 210kts?		
9999	7	0	37			

Flight 48 05/08/80 Half Fuel Heavy Landing Fight

Base: Edinburgh

Pilot: F/L T Jones

Weather: ONH 1031 Wind 040/5-10 Runway 04 (Bitumen Threshold Grass Runway)

FH:

Establishment and and the contract the property of the contract of the contrac

Fuel Used: unknown

Known Faults None

Tape 1					En	try	Ext	it
Elapsed	File	Start	Stop		Alt	A/S	Alt	A/S
9999	1	0	65	Ground Run and Calibration				
9999	2	Ō	25	Normal Landing, Power Off, No				
				Flare, 2.5G Fuel 2001b				
9999	3	0	88	Normal Landing, 5kts Too Slow,				
				Smooth				
9999	4	0	80	Normal Landing, 5kts Too Slow,				
				Smooth				
9999	5	0	75	Normal Landing, Too Slow, Power				
				Off, Drop 1.76				
9999	6	0	120	Normal Landing, 10kts Too Slow,				
				Hold Off High 2.06 Fuel 1701b				
9999	7	0	85	Normal Landing, 10kts Too Slow,				
				Hold Off High 2.06				
9999	8	0	80	Short field 60kts, Nose Wheel				
				First 2.0G Fuel 160lb				
9999	9	0	112	Short field 60kts, 3 Wheels on				
				2.09				
9999	10	0	65					
9999	11	0	65					
9999	12	0	80	Flapless Landing 1.36 Fuel 140lb				
9999	13	0	95	· · · · · · · · · · · · · · · · · · ·				
9999	1.4	0	62					
9999	15	0	62	Practice Forced Landing, Held Off				
Tape 2								
9999	1	0	62					
9999	2	0	45	· · · · · · · · · · · · · · · · · ·				
				1201b				
9999	3	0	85	Normal Landing 1.76				
9999	4	0	65					
9999	5	0	110					
9999	6	0	82	▼				
9999	7	0	100	Normal Landing 2.36				

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